



Shri Govindsing Rathod Shikshan Prasarak Mandal, Dahatonda's
Shri Dr. R. G. Rathod Arts and Science College, Murtizapur
Dist.-Akola (MS)

Affiliated to Sant Gadge Baba Amravati University, Amravati

Website – <http://rgrcollmzr.ac.in>



1.3: CURRICULAM ENRICHMENT

1.3.1: Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum.



Shri. Govindsing Rathod Shikshan Prasarak Mandal, Dahatonda's
Shri. Dr. R. G. Rathod Arts & Science College

Murtizapur, Dist. Akola, Pin Code 444107 (MS)
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Ref. RGRAC/2022-23/SSR

Date 10/03/2023

Declaration

This is to declare that the information, reports, true copies, numerical data, etc. furnished in this file as supporting documents are verified by IQAC and found correct.

Hence this certificate.

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Shri. Dr. R. G. Rathod Arts and Science
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Principal

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College, Murtizapur, Dist. Akola



1. Curricular Aspects

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

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1. SYLLABUS on ENVIRONMENT and SUSTAINABILITY

1.1 Environment Studies

27. ENVIRONMENTAL STUDIES**Total Marks : 100****PART-A****SHORT ANSWER PATTERN****25 Marks****1. The Multidisciplinary nature of environmental studies**

- . Definition, scope and importance.
- . Need for public awareness.

(2 lecture hours)

2. Social Issues and the Environment

- . From Unsustainable to Sustainable development
- . Urban problems related to energy
- . Water conservation, rain water harvesting, watershed management
- . Resettlement and rehabilitation of people; its problems and concerns. Case studies.
- . Environmental ethics : Issues and possible solutions.
- . Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- . Wasteland reclamation.
- . Consumerism and waste products.
- . Environment Protection Act.
- . Air (Prevention and Control of Pollution) Act.
- . Water (Prevention and Control of Pollution) Act.
- . Wildlife Protection Act.
- . Forest Conservation Act.
- . Issues involved in enforcement of environmental legislation.
- . Public awareness.

(7 lecture hours)

3. Human Population and the Environment

- . Population growth, variation among nations.
- . Population explosion - Family Welfare Programme.
- . Environment and human health.
- . Human Rights.
- . Value Education.
- . HIV / AIDS.
- . Women and Child Welfare.
- . Role of Information Technology in Environment and human health.
- . Case Studies.

(6 lecture hours)

PART-B
ESSAY TYPE WITH INBUILT CHOICE **50 Marks**

4. Natural resources :

- . **Renewable and non-renewable resources :**
 - . Natural resources and associated problems.
 - Forest resources : Use and over exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
 - Water resources : Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
 - Mineral resources : Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
 - Food resources : World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer - pesticide problems, water logging, salinity, case studies.
 - Energy resources : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources, Case studies.
 - Land resources : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
 - . Role of an individual in conservation of natural resources.
 - . Equitable use of resources for sustainable lifestyles.

(8 lecture hours)

5. Ecosystems

- . Concept of an ecosystem.
- . Structure and function of an ecosystem.
- . Producers, consumers and decomposers.
- . Energy flow in the ecosystem.
- . Ecological succession.
- . Food chains, food webs and ecological pyramids.
- . Introduction, types, characteristic features, structure and function of the following ecosystem :-
 - Forest ecosystem
 - Grassland ecosystem
 - Desert ecosystem
 - Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

(6 lecture hours)

6. Biodiversity and its conservation

- . Introduction - Definition : genetic, species and ecosystem diversity.
- . Biogeographical classification of India.
- . Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values.
- . Biodiversity at global, National and local levels.
- . India as a mega-diversity nation.
- . Hot-spots of biodiversity.
- . Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts.
- . Endangered and endemic species of India.
- . Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity. (8 lecture hours)

7. Environmental Pollution

- . Definition
 - . Causes, effects and control measures of :-
 - Air pollution
 - Water pollution
 - Soil pollution
 - Marine pollution
 - Noise pollution
 - Thermal pollution
 - Nuclear hazards
- . Solid Waste Management : Causes, effects and control measures of
 - . Role of an individual in prevention of pollution.
 - . Pollution case studies.
 - . Disaster management : floods, earthquake, cyclone and landslides. (8 lecture hours)

PART-C**ESSAY ON FIELD WORK** **25 Marks****8. Field work**

- . Visit to a local area to document environmental assets - river / forest / grass land / hill / mountain
- . Visit to a local polluted site - Urban / Rural / Industrial / Agricultural
- . Study of common plants, insects, birds.
- . Study of simple ecosystems - pond, river, hill slopes, etc.

(5 lecture hours)

- (Notes : i) Contents of the syllabys mentioned under paras 1 to 8 shall be for teaching for the examination based on Annual Pattern.
- ii) Contents of the syllabys mentioned under paras 1 to 4 shall be for teaching to the Semester commencing first, and
- iii) Contents of the syllabys mentioned under paras 5 to 8 shall be for teaching to the Semester commencing later.

LIST OF REFERENCES :-

- 1) Agarwal, K.C., 2001, Environmental Biology, Nidi Publ. Ltd., Bikaner.
- 2) Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad - 380 013, India, Email : mapin@icenet.net (R)
- 3) Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p.
- 4) Clark R.S., Marine Pollution, Clarendon Press Oxford (TB)
- 5) Cunningham, W.P.Cooper, T.H.Gorhani, E & Hepworth, M.T., 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p.
- 6) De A.K., Environmental Chemistry, Wiley Eastern Ltd.
- 7) Down to Earth, Centre for Science and Environment (R)
- 8) Gleick, H.P. 1993, Water in Crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press. 473p.
- 9) Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Mumbai (R)
- 10) Heywood, V.H. & Watson, R.T. 1995, Global Biodiversity Assessment, Cambridge Univ. Press 1140p
- 11) Jadhav, H & Bhosale, V.M. 1995, Environmental Protection and Laws, Himalaya Pub. House, Delhi. 284 p.
- 12) Mckinney, M.L. & Schoch, R.M. 1996, Environmental Science Systems & Solutions, Web Enhanced Edition. 639 p.
- 13) Mhaskar A.K., Matter Hazardous, Techno-Science Publications (TB)
- 14) Miller T.G. Jr., Environmental Science, Wadsworth Publishing Co. (TB)
- 15) Odum, E.P., 1971, Fundamentals of Ecology, W.B.Saunders Co., U.S.A., 574p.
- 16) Rao M.N. & Datta A.K., 1987, Waste Water Treatment, Oxford & IBH Publ. Co. Pvt. Ltd. 345 p.
- 17) Sharma B.K., 2001, Environmental Chemistry, Goel Publ. House, Meerut.
- 18) Survey of the Environment, The Hindu (M)
- 19) Townsend C., Harper J., and Michael Begon, Essentials of Ecology, Blackwell Science (TB)

- 20) Dr. Deshpande A.P., Dr. Chudiwale A.D., Dr.Joshi P.P. & Dr. Lad A.B. : Environmental Studies, Pimpalpure & Company Pub., Nagpur.
- 21) डॉ. विठ्ठल घारपुरे : पर्यावरणशास्त्र, पिंपळापुणे अॅन्ड कंपनी पब्लिशर्स, नागपूर.
- 22) Trivedi R.K., Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards, Vol. I and II, Enviro Media (R)
- 23) Trivedi R.K. and P.K. Goel, Introduction to Air Pollution, Techno-Science Publications (TB)
- 24) Wagner K.D., 1998, Environmental Management, W.B.Saunders Co., Philadelphia, USA 499p.

(M) Magazine

(R) Reference

(TB) Textbook

- 25) Environmental Studies : R.Rajgopalan, Oxford Uni. Press, New Delhi, 2005
- 26) Environmental Chemistry and Pollution by Dr.N.W.Ingole, D.M.Dharmadhikari, Dr.S.J.Patil, Dasganu Prakashan, Nagpur.

1.2 Botany

13. BOTANY

There shall be following paper and practical for B. Sc. Part ó I Semester one examination. The syllabus is based on six theory periods and six practical periods per week (Total 75 ó 80 theory sessions and 25 practical sessions per complete semester). There shall be one compulsory paper of 3 hours duration, in theory as stated below and practical examination extending for 4 hours. Every examinee shall offer the following paper of 100 marks (out of which 80 marks will be for written examination and 20 marks for internal assessment) and practical examination of 50 marks. Candidates are required to pass separately in theory and practical examination.

1.	Paper ó 1		Marks
	a. Theory	-	80
	b. Internal Assessment	-	20
2.	Practical	-	50

Total 150 Marks

1S – BOTANY**Diversity & Applications of Microbes and Cryptogams****UNIT-I : Plant Diversity (15)**

- 1.1 Cyanobacteria and its impact on origin of life
- 1.2 Introduction to Plant Kingdom: Cryptogams
- 1.3 Diversity of plants with respect to habitat, form, nutrition and ecological status
- 1.4 General Account of Viruses and structure of TMV and HIV
- 1.5 Bacteria: structure, Nutrition and reproduction
- 1.6 Role of microbes in Agriculture, Medicine and Industries

UNIT-II: Algae (15)

- 2.1. Classification according to F. E. Fritsch and G. M. Smith up to classes
- 2.2. General characters of algae with reference to Habitat, Thallus organization, Pigmentation, Reserve food and Reproduction
- 2.3. General characters of following classes with special reference to examples mentioned ó
 - 2.3.1. Chlorophyta - Oedogonium
 - 2.3.2. Charophyta ó Chara (Thallus structure and reproduction)
 - 2.3.3. Phaeophyta ó Sargassum (Thallus structure and reproduction)
 - 2.3.4. Rhodophyta ó Batrachospermum

UNIT-III : Fungi (15)

- 3.1. Classification according to Ainsworth (1973)
- 3.2. General characteristics of following classes with special reference to examples mentioned ó
 - 3.2.1. Mastigomycotina : Albugo (Cystopus)
 - 3.2.2. Ascomycotina : Aspergillus
 - 3.2.3. Basidiomycotina : Puccinia graminis-tritici
 - 3.2.4. Deuteromycotina : General characters
- 3.3 Lichen-Types & Economic importance

Unit-IV : Bryophyte (15)

- 4.1. Classification according to G. M. Smith
- 4.2. General characters, thallus organization and life cycle ofó
 - 1.2.1. Hepaticopsida ó Marchantia
 - 1.2.2. Bryopsida ó Funaria
- 4.3. Evolution of sporophyte in bryophytes
- 4.4. Affinities of bryophytes with algae and pteridophytes
- 4.5. Brief Account on some Indian Bryologist.

Unit-V : Pteridophyte (15)

- 5.1. Pteridophytes as First Vascular Plants.
- 5.2. Classification according to G. M. Smith
- 5.3. General characters of the following classes with special reference to examples mentioned ó
 - 5.3.1. Sphenopsida ó Equisetum
 - 5.3.2. Filicopsida ó Marsilea
- 5.4. Stele types in pteridophytes
- 5.5 Heterospory and Seed Habit in Pteridophytes

Unit-VI : Application of Microbes Cryptogams (15)

- 6.1. Economic Importance of Algae with special reference to Food, Industries, Agriculture and Harmful aspects
- 6.2. Mycorrhiza ó Types and Application
- 6.3. Role of Fungi in Industries, Medicine, Food & Agriculture
- 6.4. Plant Diseases ó
 - 6.4.1. Viral ó TMV
 - 6.4.2. Bacteria ó Black arm of cotton (Xanthomonos malvacearum)
 - 6.4.3. Fungal ó Tikka disease of groundnut (Cercospora sps.)
- 6.5. Economical and Ecological Importance of Bryophytes

LABORATORY EXERCISE :**I ALGAE**

Preparation of temporary mount, identification with reason of following algal materials-
edogonium, Hydrodictyon, Chara, Vaucheria, Ectocarpus, Sargassum, Batrachospermum

II. FUNGI AND PLANT PATHOLOGY

- (1) Study of following genera
Albugo, Uncinula, Penicillium, Agaricus, Puccinia, Cercospora
- (2) Study of Crustose, Fruticose & Foliose Lichen
- (3) Study of symptoms of fungal, viral, bacterial and Mycoplasma diseases
- (4) Collection of fungal specimen & infected plant part from local region
- (6) Demonstration of Mushroom Cultivation Technology

III. BRYOPHYTES

Study of external and anatomy features of vegetative and reproductive parts of following genera ó Marchantia, Anthoceros, Funaria, Polytrichum and Sphagnum

IV. PTERIDOPHYTES

Study of Pteridophyte external and anatomy features of vegetative and reproductive parts of following genera ó Lycopodium, Equisetum, Osmunda, Selaginella, Adiantum, Marsilea and any one fossil specimen

- Note:**
1. Omit the details of development of sex organs and sporophyte.
 2. Botanical excursion (Two local and one outside the state is compulsory)
 3. Common algal, fungal, pathological, bryophytic and pteridophytic collection and excursion report must be submitted at the time of practical examination.

BOOKS RECOMMENDED

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2. Gangulee, H. C. and Kar, A.K. (2001). College Botany Vol. II. Books and Allied Press Ltd. Kolkata.
3. Krushnamurthy, K. V. (2007). An advanced Text Book on Biodiversity: Principles and Practice. Oxford and IBH Publishing Kumar, H.D. (1988). Introductory Phycology. Affiliated East-West Pres Ltd. New Delhi.
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 9. Pandey, S.N., Trivedi, P.S. and Mishra, S.P. (1995). A Text Book of Algae, Vikas Publishing House (P.) Ltd. New Delhi.
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 12. Rashid, A. (1996). An Introduction To Bryophyta. Vikas Publishing House Ltd. New Delhi.
 13. Saxena, A.K. and Sarbhai, R.M. (1992). A Text Book of Botany Vol. II Embryophyta. Ratan Prakashan Mandir, Agra.
 14. Sharma, O.P. (1989). A Text Book of Fungi. Tata Mc Graw-hill Publishing Company Limited, New Delhi.
 15. Sharma, O.P. (1990). A Text Book of Algae. Tata Mc Graw-hill Publishing Company Limited, New Delhi.
 16. Smith, G.M. (1995). Cryptogamic Botany. Vol. II (Bryophytes and Pteridophytes). Mc Graw-Hill Book Company, New York and London.
 17. Sporne, K.R. (1995). The Morphology of Pteridophyta. The Hutchinson University Library, London, U.K.
 18. Varma, P. S. and Agrawal, V. K. (2000). Cell Biology, Genetics, Molecular Biology, Evolution and Ecology. S. Chand and Company (P.) Ltd. New Delhi.
 19. Vashistha, B.R. (1997). Botany For Degree Students-Bryophyta. S. Chand and company (P.) Ltd. New Delhi.
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 21. Sharma, P.D. (1998). The Fungi. Rastogi Publications, Merrut.
 22. Smith, G.M. (1995). Cryptogamic Botany. Vol. I (Algae and Fungi). McGraw-Hill Book Company, New York and London.
 23. Vashistha, B.R. (1995). Botany for Degree Students-Algae. S. Chand and Company (P.) Ltd. New Delhi.

24. Vashistha, B.R. (1995). Botany for Degree Students-Fungi (9th Ed.) S. Chand and company (P.) Ltd. New Delhi. 7
25. Pandey Dr.B.P., Botany for Degree Students, S.Chand & Co. Ltd. New Delhi.
26. Modern Practical Botany Volume-I, Dr.P.B.Pandey, S.Chand Pub., N. D.
27. Modern Practical Botany Volume-II, Dr.P.B.Pandey, S.Chand Pub., N. D.
28. Modern Practical Botany Volume-III, Dr.P.B.Pandey,S.Chand Pub., N. D.
29. A Text Book of Botany – Diversity of Microbes and Cryaptogams (2013), Dr.N.H.Shahare, Dr.A.U.Pachkhede, Dr.D.V.Hande, Dr.S.H.Kanherkar, Sh.R.S.Dhande, Dr.D.S.Talwankar, Published by Nabh Prakashan, Amravati.

13. BOTANY

2S – BOTANY

Gymnosperm, Morphology of Angiosperms and Utilization of Plants

UNIT-I : Palaeobotany (15)

- 1.1. Process of plant fossilization and types of fossils
- 1.2. Geological Time Scale
- 1.3. Fossil Gymnosperms
 - 1.3.1. Pteridospermales: Lyginopteris oldhamia
 - 1.3.2. Bennettitales: Bennittites

UNIT-II : Gymnosperms (15)

- 2.1. Classification according to D. D. Pant
- 2.2. General account: morphology, anatomy, life cycle and taxonomic position of Pinus and Gnetum
- 2.3. Affinities with pteridophytes and angiosperms
- 2.4. Economic importance of Gymnosperms

UNIT-III : Morphology (15)

- 3.1. Diversity in Plants habits – Annual, biannual, perennials
- 3.2. Roots – Types of root : tap and adventitious, modification of root : for food storage, respiration, and supports.
- 3.3. Stem – Types of Stem, Characteristic features, branching, modification of Stem – Underground

and aerial

- 3.4. Leaf – Parts of leaf, types of leaves – simple and compound; Phyllotaxy; Venation; Stipule. Modification of leaves

UNIT-IV : Morphology (15)

- 4.1. Inflorescences – Types: Racemose, Cymose and Special.
- 4.2. Flower – Flower as modified shoot; Structure of flower – Calyx, Corolla, Androecium and Gynoecium. Placentation; Types of Pollination.

UNIT-V : Morphology and Utilization of Plants (15)

- 5.1. Fruits – Morphological types
- 5.2. Utilization of Plants
 - 5.2.1. Food Plants – Wheat, Potato – Morphology, varieties and economic importance.
 - 5.2.2. Fiber Plant – Morphology, varieties and economic importance of Cotton.
 - 5.2.3. Oil yielding Plant – Morphology, Varieties and economic importance of Ground nut.

UNIT-VI : Utilization of Plants (15)

- 6.1. Spices–General account and economic importance of Black pepper, Clove, Cinnamon and Cardamom
- 6.2. General account and sources of firewood, timber and Bamboos.
- 6.3. Essential oils – General account, economic importance of Eucalyptus.
- 6.4. Pharmacognosy and Phytochemistry with respect to following medicinal plants –
 - 6.4.1. Aloe vera
 - 6.4.2. Adathoda vasica
 - 6.4.3. Asparagus racemosa
 - 6.4.4. Azadirachta indica
 - 6.4.5. Catharanthus roseus
 - 6.4.6. Chlorophytum borivillianum
 - 6.4.7. Emblica officinalis
 - 6.4.8. Ocimum sanctum
 - 6.4.9. Rauwolfia serpentina

- 6.4.10. *Vitex negundo*
6.4.11. *Withania somnifera*

LABORATORY EXERCISE

- I. Gymnosperms: Morphology and anatomy of the following members
 - ó
 - a. *Pinus*
 - b. *Gnetum*
- II. Preparation of double stained permanent mount of *Pinus* stem, needle and *Gnetum* stem and leaf.
- III. Study of fossil slides of *Lyginopteris* and *Bennettites*
- IV. Detailed morphological study of types of root, stem and leaf with its modifications
- V. Forms of corolla
- VI. Types of placentation
- VII. Morphology of fruits
- VIII. Morphology of plant parts used and medicinal plants prescribed in syllabi
- IX. Utilization of plants: Spices, fiber yielding plants and food plants prescribed in syllabi

BOOKS RECOMMENDED

- 1) A.C. Dutta : Text Book of Botany.
- 2) Andrews A.N. : Studies in Paleobotany.
- 3) Arnold C.A. : Introduction of Paleobotany.
- 4) Bhatnagar S.P. and Moitra A., 1996 : Gymnosperms, New Age International Limited, New Delhi.
- 5) Bhojwani & Bhatnagar : Embryology of Angiosperms.
- 6) Coulter M.J. & Chamberlain C.J. : Morphology of Gymnosperms.
- 7) Cutter E.G., 1971 : Plant Anatomy Experiment and Interpretation Part-II, Organs, Edward Arnold, London.
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- 9) Davis P.H., and Heywood V.H., 1993 : Principles of Angiosperm Taxonomy: Oliver and Boyd, London.
- 10) Eames E.J. : Morphology of vascular Plants.
- 11) Gangulee & Kar : College Botany Vol.II
- 12) Gangulee Das and Dutta : College Botany, Vol.I
- 13) Gifford E.M. and Foster A.S., 1988 : Morphology and Evolution of Vascular Plants, W.H. Freeman & Company, New York.
- 14) Hartmann H.T. and Kestler D.E., 1976 : Plant Propagation Principles and practices, 3rd edition, prentice Hall of India Pvt.Ltd. New Delhi.

- 15) Heyhood V.H. and Moore D.M. (Eds) 1984 : Current concepts in plant Taxonomy. Academic Press, London.
- 16) Jeffrey C., 1982 : An introduction to Plant Taxonomy, Cambridge University Press, Cambridge, London.
- 17) Maheshwari P. : Introduction of Embryology of Angiosperms.
- 18) Pande B.P. : A Text Book of Angiosperms.
- 19) Proctor M. and Yeop, 1973 : The Pollination of Flowers, William Collins Sons, London.
- 20) Radford A.E., 1986 : Fundamentals of Plant Systematics, Harper and Row, New York.
- 21) Rendle A.B. : Classification of flowering plants, Vol.I & Vol.II.
- 22) S. Sundar Rajan : College Botany, Vol.II & Vol.III.
- 23) Saxena and Sarabhai : A Text Book of Botany, Vol.II
- 24) Sharma O.P. : Gymnosperms.
- 25) Shukla & Mishra : Paleobotany.
- 26) Singh and Jain : Taxonomy of Angiosperms.
- 27) Singh, 4. 1999, Plant Systematics - Theory and Practices, Oxford and IBH Pvt. Ltd., New Delhi.
- 28) Sporne K.R. : Morphology of Gymnosperms.
- 29) Sporne K.R., 1965: The Morphology of Gymnosperms, Hutchinson & Company, (Publisher) Ltd. London.
- 30) Stace C.A., 1989: Plant Taxonomy and Biosystematics (2nd Edition) Edward Arnold, London.
- 31) Stewart W.N., 1983 : Paleobotany and Evolution of Plants, Cambridge University Press, Cambridge.
- 32) Thomas P., 2000 : Trees - Their natural history, Cambridge University Press, Cambridge.
- 33) Trivedi B.S. & Sharma B.B. : Introductory Taxonomy.
- 34) Tyagi & Kshetrapal : Taxonomy of Angiosperms.
- 35) Vasistha P.C. : Gymnosperms.
- 36) Vasistha P.C. : Taxonomy of Angiosperms.
- 37) Vyas Purohit Garg : A Text Book of Gymnosperms.
- 38) Walton : An Introduction & Study of fossil.
- 39) Modern Practical Botany, Volume-I, Dr.P.B.Pande, S.Chand Pub., N.W.
- 40) Modern Practical Botany, Volume-II, Dr.P.B.Pande, S.Chand Pub., N.W.
- 41) Modern Practical Botany, Volume-III, Dr.P.B.Pande, S.Chand Pub., N.W.
- 42) A Text Book of Botany óPaleobotany, Gymnosperms, Morphology and Utilization of Plants (2014), Dr.P.W.Deotare, Dr.M.A.Shahezad, Dr.Mrs.U.G.Malode, Dr.U.S.Patil, Dr.Mrs.P.S.Kokate,

Dr. Mrs. S. P. Khodke, Published by Nabh Prakashan, Amravati.

- 43) Morphology of Angiosperms and Utilization of Plants, Dr. Shubhangi Ingole, Published by Paygun Publishers, Amravati.

Semester – II
Practical Schedule

Time : 4 hours	Marks : 50
Q1. Preparation of double stained permanent mount of given Gymnospermic material and identification with reasons	10
Q2. Comments on given Morphological specimens	12
i. Root	
ii. Stem	
iii. Leaf	
iv. Inflorescence	
v. Flower	
vi. Fruit	
Q3. Comment on given medicinal plant with reference to morphology, part used and medicinal importance (Any two)	10
Q4. Spotting (02 marks each)	08
a) Palaeobotany	
b) Gymnosperms	
c) Utilization of Plant (food, fibers, spices) (2 Materials)	
Q5. Practical record	5
Q6. Viva voce and Excursion report	5

16. ZOOLOGY

There shall be following paper and practical for B.Sc. Part-I Semester Two examination. The syllabus is based on 6 theory periods and six practical periods per week (Total 75-80 theory Sessions and 25 practical sessions during the complete semester). There shall be one compulsory paper of 3 hours duration, in theory as stated below and practical examination extending for four hours. Every examinee shall offer the following paper of 100 marks, (Out of which, 80 marks will be for written examination and 20 marks for internal assessments) and practical examination of 50 marks. Candidates are required to pass separately in theory and practical examination.

	Marks
1) Paper-II: Cell and Developmental Biology	
Theory (Written) 80
Internal assessments 20
2) Practical: 50
Total :	<hr/> 150 Marks

2S-ZOOLOGY

CELL AND DEVELOPMENTAL BIOLOGY

- UNIT-I:**
1. General organization of Prokaryote and Eukaryote Cell.
 2. Ultra structure and functions of, Plasma membrane
 3. Ultra structure types and functions of, Endoplasmic reticulum
- UNIT-II:**
1. Ultra structure and functions of, Golgi complex
 2. Ultra structure and functions of Ribosome
 3. Ultra structure and functions of Mitochondria.
 4. Ultra structure and functions of Lysosomes.
- UNIT-III:**
1. Ultra structure and functions of nucleus and nucleolus.
 2. Chromosome and its general organization.

7. BOTANY

3S- BOTANY

ANGIOSPERM SYSTEMATICS, ANATOMY & EMBRYOLOGY

UNIT I: Angiosperm Systematics and Biodiversity.

- 1.1 Angiosperms: Origin and Evolution (Pteridospermean and Bennititalean Theory)
- 1.2 Botanical Nomenclature: Principles of rules, Taxonomic Ranks, Type concept, Valid publication.
- 1.3 Herbarium ó Concept & significance, Royal Botanical Garden, Kolkata.
- 1.4 Concept of biodiversity, Ex situ and In situ conservation
- 1.5 Concept & importance of Biodiversity.

UNIT II: Angiosperm Systematics

- 2.1 Systems of Classification: Bentham and Hooker's System, Engler and Prantle's system.
- 2.2 Systematic studies & economic importance of following Families
Dicotyledons (Polypetalae) : Malvaceae, Brassicaceae, Leguminosae, Apiaceae,

UNIT III: Angiosperm Systematics

- 3.1 Systematic studies & economic importance of following Families
Dicotyledons (Gamopetalae): Asteraceae, Asclepiadaceae, Apocynaceae, Solanaceae, Verbenaceae, Lamiaceae.
- 3.2 Dicotyledons (Monoclamydeae): Euphorbiaceae.
- 3.3 Monocotyledons: Liliaceae, Poaceae.

UNIT IV: Anatomy

- 4.1 Types of Tissues:
Meristematic ó Types of meristems
Permanent ó Simple and complex.
- 4.2 Characteristics of growth rings, Sapwood and heartwood.
- 4.3 Anatomy of root: Primary structure in dicot and monocot root, normal secondary growth in dicot root.

UNIT V: Anatomy

- 5.1 Anatomy of stem: Primary structure in monocot and dicot

stem, normal secondary growth in dicot stem.

- 5.2 Anomalies in primary structure in *Boerhavia* stem, secondary structure in *Bignonia* and *Dracaena* stem.
- 5.3 Leaf Anatomy: Internal structure in *Nerium* and *Maize* leaf.

UNIT VI : Embryology

- 5.1 Microsporangium, microsporogenesis, development of male gametophyte.
- 5.2 Megasporangium, types of ovules, megasporogenesis, development of female gametophyte (monosporic, Bisporic & tetrasporic).
- 5.3 Double fertilization and triple fusion.
- 5.4 Embryo ó Classification of embryo.
- 5.5 Endosperm types & significance, Suspended animation

LABORATORY EXERCISES

- 1) Embryology of Angiosperms:
 - i) Observation of wide range of flowers available in the locality and methods of their pollination.
 - ii) Study through permanent slides of T.S. of anthers, microsporogenesis, L.S. of ovule, types of endosperms and embryo of *Capsella* .
 - iii) Mounting of T.S. of anthers, Pollen grains and pollinia.
- 2) Anatomy of angiosperms : Preparation of double stained slides of root, stem and leaves of angiosperms mentioned in the syllabus.
- 3) Taxonomy : Description of ten plants belonging to different families in technical language and identification upto family level.
- 4) Long and short excursion is essential

Note : Field tour reports should be supported by exhaustive field notes and photographic representation of plant species studied

Brassicaceae- *Brassica*, **Malvaceae-** *Hibiscus*, *Sida*, *Malvastrum*, **Fabaceae-** *Crotalaria*, *Indigifera*, *Tephrosia*, **Caesalpinoidae-** *Caesalpineae*, *Cassia*, **Mimosoidae-** *Prosopis*, *Acacia*, **Apiaceae-** *Corindrum*, **Apocynaceae-** *Vinca*, *Thevetia*, **Asclepiadaceae-** *Cryptostegia*, *Calatropis*, **Solanaceae-** *Datura*, *Solanum*, *Withania*, **Euphorbiaceae-** *Croton*, *Jatropha*, *Euphorbia*, **Lamiaceae-** *Oscimum*, *Hyptis*, **Asteraceae-** *Tridax*, *Lagasca* **Verbanaceae** – *Lantana*, *Clerodendron*

PRACTICAL EXAMINATION**Time;- 5 Hours****Max. Marks- 50**

- Q.1 Preparation of double stained permanent micropreparation of given angiospermic Material Identification with reasons
10 Marks
- Q.2 Description of given angiospermic plant in technical language, identification up to family, floral formula, floral diagram (two Plants)
20 Marks
- Q.3 Spotting (taxonomy-1, anatomy-2, Embryology-2) 10 Marks
- Q.4 Class record, Excursion report with plant photographic submission 06 Marks
- Q.5 Submission of micropreparation and viva voce 04 Marks

Books Recommended :

- 1) **A.C.Dutta** : Text Book of Botany.
- 2) **Andrews A.N.** : Studies in Paleobotany.
- 3) **Arnold C.A.** : Introduction of Paleobotany.
- 4) **Bhojwani & Bhatnagar** : Embryology of Angiosperms.
- 5) **Chandurkar** : Plant Anatomy
- 6) **Cutter E.G.**, 1971 : Plant Anatomy Experiment and Interpretation Part-II, Organs, Edward Arnold, London.
- 7) **Davis P.H.**, and Heywood V.H., 1993 : Principles of Angiosperm Taxonomy : Oliver and Boyd, London.
- 8) **Eames E.J.** : Morphology of vascular Plants. edition, prentice Hall of India Pvt.Ltd. New Delhi.
- 9) **Esau K.** : 1977, Anatomy of seed plant, 2nd Edition, John Wiley and Sons, New York.
- 10) **Gangulee & Kar** : College Botany Vol.II
- 11) **Gangulee Das and Dutta** : College Botany, Vol.I
- 12) **Giford E.M. and Foster A.S.**, 1988 : Morphology and Evolution of Vascular Plants, W.H. Freeman & Company, New York.
- 13) **Hartmann H.T. and Kestler D.E.**, 1976 : Plant Propagation Principles and practices, 3rd
- 14) **Heyhood V.H. and Moore D.M.** (Eds) 1984 : Current concepts in plant Taxonomy. Academic Press, London.
- 15) **Jeffrey C.**, 1982 : An introduction to Plant Taxonomy, Cambridge University Press, Cambridge, London.

- 16) **Maheshwari P.** : Introduction of Embryology of Angiosperms.
- 17) **Pande B.P.** : A Text Book of Angiosperms.
- 18) **Radford A.E.**, 1986 : Fundamentals of Plant Systematics, Harper and Row, New York.
- 19) **Rendle A.B.** : Classification of flowering plants, Vol.I & Vol.II.
- 20) **S.Sundar Rajan** : College Botany, Vol.II & Vol.III.
- 21) **Shukla & Mishra** : Paleobotany.
- 22) **Singh and Jain** : Plant Anatomy.
- 23) **Singh and Jain** : Taxonomy of Angiosperms.
- 24) **Singh, 4.** 1999, Plant Systematics - Theory and Practices, Oxford and IBH Pvt. Ltd., New Delhi.
- 25) **Stace C.A.**, 1989. : Plant Taxonomy and Biosystematics (2nd Edition) Edward Arnold, London.
- 26) **Stewart W.N.**, 1983 : Paleobotany and Evolution of Plants, Cambridge University Press, **Cambridge. Cutter, E.G.** 1969 : Part-I, Cells and tissues, Edward, Arnold, London.
- 27) **Trivedi B.S. & Sharma B.B.** : Introductory Taxonomy.
- 28) **Tyagi & Kshetrapal** : Taxonomy of Angiosperms.
- 29) **Vasistha P.C.** : Plant Anatomy.
- 30) **Vasistha P.C.** : Taxonomy of Angiosperms.
- 31) **Walton** : An Introduction & Study of fossil.
- 32) Modern Practical Botany, Volume-I, Dr.B.P.Pande, S.Chand Publication, New Delhi.
- 33) Modern Practical Botany, Volume-II, Dr.B.P.Pande, S.Chand Publication, New Delhi.
- 34) Modern Practical Botany, Volume-III, Dr.B.P.Pande, S.Chand Publication, New Delhi.

4S- BOTANY**CELL BIOLOGY, GENETICS AND BIOCHEMISTRY****Unit – I: Cell Biology**

- 1.1 Cell concept ó Prokaryotic and Eukaryotic cell
- 1.2 Cell wall ó Structure and Functions
- 1.3 Plasma membrane ó Structure (models) and Functions
- 1.4 Nucleus ó Ultra structure (nuclear membrane, nuclear pore complex and nucleolus) and functions
- 1.5 Chloroplast- Structure and Functions

Unit-II: Cell Biology Structure and functions of-

- 2.1 Endoplasmic Reticulum
- 2.2 Golgi complex
- 2.3 Vacuole
- 2.4 Ribosome
- 2.5 Peroxisome
- 2.6 Mitochondria
- 2.7 Cell cycle: Mitosis and Meiosis

Unit-III : Genetics

- 3.1 Chromosome- Morphology, Types, Centromere & Telomere
- 3.2 Chromosomal aberrations
 - 3.2.1 Structural aberrations: Deletion, Duplication, Inversion and Translocation
 - 3.2.2 Numerical aberrations: Euploidy and aneuploidy

Unit-IV: Genetics

- 4.1 Mendelism: Mendel's law of Dominance, Segregation and Independent assortment, Incomplete dominance
- 4.2 Interaction of genes- Complementary, Supplementary and Epistasis
- 4.3 Problems based on Mendelism and Interaction of Genes

Unit- V Genetics

- 5.1 Linkage & Concept, Types and theories
- 5.2 Crossing over: Concept, Types and theories
- 5.3 Gene mutations- Spontaneous and Induced
- 5.4 Extra-nuclear Genome- Mitochondrial DNA and Chloroplast DNA

Unit- VI Biochemistry

- 6.1 Nomenclature of Enzymes
- 6.2 Characteristics of Enzymes
- 6.3 Concept of holoenzymes, coenzymes and cofactors
- 6.4 Theories for Mechanism of action of Enzymes
- 6.5 Structure and functions Carbohydrates: Monosaccharides (Glucose), Disaccharides (Galactose) and Polysaccharides (Starch)

PRACTICAL :**I Cell Biology (Any Two)**

1. Isolation of mitochondria from plants
2. Isolation of chloroplast
3. Squash preparation for the study of various stages of mitosis
4. Smear preparation for the study of various stages of meiosis.

II Genetics

1. To prove Mendel's Monohybrid ratio.
2. To prove Mendel's Dihybrid ratio.
3. Problems based on Interaction of genes

III Biochemistry

1. To study the enzyme activity of catalase.
2. To demonstrate test for glucose in grapes, & sucrose in cane sugar / beet root.
3. To demonstrate test for protein.
4. To demonstrate the lipid test in oily seeds.
5. To demonstrate the test for starch / cellulose.
6. To demonstrate the activity of enzyme amylase from germinating Wheat grains.

**B. Sc. II : Semester – IV
Practical Schedule**

Time : 4 hours**Marks : 50**

Q.1 :	Squash/Smear preparation for study of Mitosis/Meiosis stages	10 Marks
Q.2 :	Genetics : To perform given experiment	10 Marks
Q.3 :	Genetics problem	05 Marks
Q.4 :	Biochemistry : To perform given test (Any Two)	10 Marks
Q.5 :	Spotting	05 Marks
Q.6 :	Class record and viva-voce	10 Marks

Suggested Readings :

- 1) **Ahluwalia K.B** 2005 (First Edition). Genetics. New Age International Private Ltd. Publishers, New Delhi.
- 2) **Buchanan B.B, Grissem W. and Jones R.L**(2000). Biochemistry and Molecular Biology of Plants. American Society of Plant Physiologists Maryland, USA.
- 3) **Dalela & Verma** : Cytology.

B.Sc. Final Year, Semester-V

7: BOTANY

The examination in Botany of fifth Semester shall comprise of one theory paper, internal assessment and practical examination. Theory Paper will be of 3 Hrs. duration and carry 80 marks. The internal assessment will carry 20 marks. The practical examination will be of 4 hours duration and carry 50 marks.

The following syllabi is prescribed on the basis of six lecturers per week and 6 practical periods per batch per week. Each theory paper has been divided into 6 units. There shall be one question in every unit with internal choice for each of 12 marks & one compulsory question covering all the syllabus of Semester-V (8 marks).

55 - BOTANY

PLANT PHYSIOLOGY AND ECOLOGY

Unit - I: Plant Water Relations

- 1.1 Importance of water to plant life.
Imbibition , Diffusion, Osmosis, Plasmolysis.
- 1.2 Active and passive Absorption of water.
- 1.3 Ascent of sap - Root Pressure and Transpiration Pull Theory.
- 1.4 Transpiration - Types of transpiration, Stomatal movements, Mechanism of transpiration (Starch) sugar hypothesis), Significance. Antitranspirant, Guttation.
- 1.5 Mineral uptake - Active uptake - Carrier Concept, Passive up take - Ion Exchange.

Unit - II: Metabolism-

- 2.1 Photosynthesis - Introduction, Role of Light, Photosynthetic Apparatus and Pigments, Two Pigment Systems, Photophosphorylation, C3 and C4 cycle, CAM Pathway.
- 2.2 Respiration - Introduction, Mitochondria as a Respiratory centre, Types of Respiration - Aerobic and Anaerobic, Mechanism of aerobic respiration- Glycolysis, Krebs cycle, Electron transport system and Chemiosmotic ATP generation, Respiratory Quotient.

Unit - III: Metabolism and growth

- 3.1 Nitrogen Metabolism- Sources of nitrogen, Symbiotic nitrogen fixation, Role of Nitrate reductase.
- 3.2 Growth - Phases of growth, Growth curve, Physiological role of growth hormones (Auxins, Gibberellins, Cytokinins, Absciscic acid, and Ethylene).
- 3.3 Physiology of Senescence and Abscission.

Unit – IV: Plant responses

- 4.1 Photoperiodism - Concept of Florigen, Role of Phytochrome,
- 4.2 Vernalization- Concept and Significance.
- 4.3 Plant movement- Tropic (Phototropic and Geotropic) and Nastic (Epinasty, Hyponasty and Seismonasty)
- 4.4 Stress physiology- Concept, Types of stress, Water and Salinity stress.

Unit – V: Ecology and Environment:

- 5.1 Concept of environment, Concept and scope of ecology.
- 5.2 Ecological factors- Climatic- Light, Temperature and Water.
- 5.3 Atmosphere and its composition.
- 5.4 Edaphic factor- Process of soil formation, soil profile, soil biota and their role.
- 5.5 Ecological Adaptations - Morphological and Anatomical adaptation in Hydrophytes, and Xerophytes.

Unit – VI: Ecosystem:

- 6.1 Population Ecology- Natalty and Mortality, Community characteristics ó Frequency, Density and Abundance
- 6.2 Ecological Succession - Hydrosere and Xerosere
- 6.3 Ecosystem ó Definition, Structure and Function,

Food chain, Food web, Energy flow model (Single channel model)

- 6.4 Types of Ecosystem- Pond ecosystem, Desert ecosystem.

LABORATORY EXERCISE :**Plant Physiology: Major experiment (Any Seven)**

1. To study the effect of temperature and organic solvent on permeability of plasma membrane.
2. To study osmotic pressure of cell sap by plasmolytic method.
3. To determine water potential of plant tissue.
4. To determine the path of water (ascent of sap)
5. To determine the rate of transpiration by Ganongs photometer.
6. To determine rate of photosynthesis under varying quality of light and CO₂ concentration.
7. To study the rate of photosynthesis in terrestrial plants with the help of Ganongs Photosynthometer.
8. Separation of chloroplast pigments by paper chromatography/ solvent extraction method.
9. Separation of amino acids by paper chromatography method.
10. To determine R.Q. using different substrates.
11. To determine the rate of respiration by Ganongs respirometer.
12. To study antagonism of salts.
13. To study phenomenon of adsorption.
14. To study effect of IAA and Gibberellins on seed germination.
15. Test for secondary metabolites- Alkaloid, Phenolics, Tannin, Flavonoids and Lignin
16. To study Endo and Exo-osmosis by egg membrane osmoscope

Plant Physiology: Minor experiment- (Any Three)

1. To demonstrate fermentation.
2. To demonstrate exo and endosmosis
3. To demonstrate transpiration by Bell jar.
4. To demonstrate light is necessary for photosynthesis
5. To demonstrate anaerobic respiration in germinating seeds.
6. To demonstrate the evolution of CO₂ in respiration.
7. To demonstrate the phenomenon of nastic movement with help of *Mimosa pudica* / or *Biophytum sensitivum*.

Ecology: Major experiment (Any Three)

1. Study of morphological and anatomical adaptations in hydrophytes ó *Hydrilla*, *Eichhornia*, *Typha*, *Vallisneria* and *Nymphaea* (any two)

Study of morphological and anatomical adaptations in xerophytes -*Asparagus, Nerium, Casuarina, Euphorbia, Cycas, Opuntia* (any two)

3. Study of community characteristics by quadrat method.
4. Determination of water holding capacity of different soils.
5. To determine the texture of different soils by sieve method.

Ecology: Minor experiment (Any Two)

1. To determine the porosity of soil.
2. To determine the transparency and temperature of water bodies.
3. Estimation of salinity of different water samples
4. Determination of pH of different soils and water samples by pH papers/ pH meter.
5. Study of meteorological instruments -Rain gauge, Hygrometer, Barometer

PRACTICAL EXAMINATION

Time: 4 Hours Marks: 50

Q. 1 - Physiology- major experiment-	15
Q. 2 - Comment one Minor Physiology experiment-	5
Q. 3 - Ecology major experiment.	10
Q. 4 - Ecology minor experiment.	5
Q. 5 - Viva ó voce	5
Q.6 - Class record.	5
Q. 7 - Co-curricular Activity Report	5

Co-curricular Activity Reportö which mean the report on the activity

Such as Study Tour, Industrial visit to Research Institute, Excursion Tour to be submitted by the students at the time of practical examination.

Books Recommended:

Plant Physiology and Ecology:

1. Curtis & Clark. : Introduction of Plant Physiology.
2. H.N.Shrivastav. : Plant Physiology
3. Devlin R.M. : Plant Physiology
4. Salisbury F.B and Ross C.W. (1992).: Plant physiology (Fourth Edition) Wadsworth Publishing Company, California,USA.
5. William G. Hopkins. (1995): Introduction to Plant Physiology, Published by ó John Wiley and Sons, Inc.
6. V.Verma : Plant Physiology Verlag, New York. Vol. II.

7. Mayer & Anderson.: Plant Physiology.
8. Lincoln Taiz and Eduardo Zeiger (2003). Plant Physiology (3rd edition), Published by Panima Publishing Corporation
9. Galston, A. W. 1989: Life processes in plants. Scientific American Library, Springer
10. Jain V.K.: Fundamental of plant Physiology. S. Chand Publication New Delhi.
11. Kocchar P.C.: Text Book of Plant Physiology.
12. Mohr, H. and Schopfer, P. 1995 : Plant Physiology 4th : Edition, Wordsworth
13. Moore, T.C. 1974: Research Experiences in Plant Physiology. A Laboratory Manual.
14. Mr./Mrs.Pillei : Plant Physiology New York, U.S.A.
15. P.S.Gill: Plant Physiology, S.Chand & Co. New Delhi, Edition - Pradipö, Botany
16. Purekar and Singh: Plant Physiology,
17. R. G. S. Bidwell (revised edn.)-Plant Physiology
18. Verma S.K. and Verma Mohit (2007). A.Text Book of Plant Physiology, Biochemistry and Biotechnology, S. Chand Publications.
19. Dennis D.T., Turpin, D.H. Lefebvre D.D. and Layzell D.B. (eds) 1997. Plant Metabolism (Second Edition) Longman, Essex, England.
20. Galstone A.W. 1989. Life processes in Plants. Scientific American Library, Springer Verlag, New York, USA..
21. Moore T.C. 1989. Biochemistry and Physiology of Plant Hormones Springer ó Verlag, New York,USA.
22. Singhal G.S., Renger G., Sopory, S.K. Irrgang K.D and Govindjee 1999. Concept in Photobiology; Photosynthesis and Photomorphogenesis. Narosa Publishing House, New Delhi
23. Verma S.K. and Mohit Verma 2007. A.T.B of Plant Physiology, Biochemistry and Biotechnology, S. Chand Publications.
24. Ambasht. R.S. 1988.0 A Text Book of Plant Ecology Students FriendsCo.Varanasi.
25. Sharma P. D. 2003. Ecology and environment. Rastogi publication.
26. Botkin, D.B. and Keller, E.A. 2000. Environmental Plane (2nd edition).John Wiley & Sons Inc. New York.
27. Chapman. J.L. and Reiss. M.J. 1995. Ecology: Principles and ApplicationsCambridge University Press. College Publishers, USA.

28. Cunningham.W.P. and Saifo S.W. 1997. Environmental Science: A Global Concern WCB. McGraw Hill.
29. Dash M.C. 1993. Fundamentals of Ecology. Tata McGraw Hill Publishing Co. Ltd., New Delhi.
30. Kumar.H.D. 1996. Modern Concepts of Ecology (3rd edition). Vikas Publishing House Pvt., Ltd. Delhi.
31. Kumar.H.D. 1997. General Ecology. Vikas Publishing Pvt. Ltd., Delhi.
32. Miller.W.R. and Donahue. R.L. 1992. Soils-An Introduction to Soil and Plant Growth (6th edition). Prentice Hall of India Pvt. Ltd., New Delhil.
33. Odum.E.P. 1996. Fundamentals of Ecology. Natraj Publishing, Dehradun.
34. Pickering.K.T. and Owen L.A. 1997. An Introduction to Global Environmental Issues (2nd edition). Butter and Tanner Ltd., Great Britain.
35. Smith L.R. and Mith T.M. 1998. Elements of Ecology. (4th edition). An imprint of Addison Wesley, Longman ink. California.
36. Smith.L.R. 1996. Ecology and Field Biology (5th edition). Harper Collins
37. Tyler. M.G. Jr. 1997. Environmental Science: Working with Earth (6th edition). Wordsworth Publishing Co.
38. Weaver. J.E. and Clements. S.E. 1966. Plant Ecology. Tata McGraw publishing Co. Ltd. Bombay.
39. Chaudhari M.A. and Gupta K.K. 2009. Practical plant physiology. New Central Book agency Ltd. Kolkata.
40. Bendre: Practical Botany for B.Sc.III year. Rastogi Publications, Meerut.

Semester-VI

6S Botany

The examination in Botany of sixth Semester shall comprise of one theory paper, internal assessment and practical examination. Theory Paper will be of 3 Hrs. duration and carry 80 marks. The internal assessment will carry 20 marks. The practical examination will be of 4 hours duration and carry 50 marks.

The following syllabi is prescribed on the basis of six lecturers

per week and 6 practical periods per batch per week. Each theory paper has been divided into 6 units. There shall be one question in every unit with internal choice for each of 12 marks & one compulsory question covering all the syllabus of Semester-VI (8 marks).

SEMESTER VI – MOLECULAR BIOLOGY AND BIOTECHNOLOGY

Unit-I : DNA the genetic material :

- 1.1 Historical account of Griffith's Expt, Hershey and Chase Expt.
- 1.2 DNA's Chemical composition and Double Helical model,
- 1.3 DNA replication in Eukaryotes;
- 1.4 DNA Packaging - Nucleosome and Solenoid
- 1.5 Satellite, Repetitive DNA and Transposable element in plants (AC-DS system)

Unit-II : Gene Structure and Expression -

- 2.1 Concept of gene, Fine structure of Gene
- 2.2 Gene Expression of Central Dogma, Types of RNA, Genetic code, Ribosome as a translation machine
- 2.3 Transcription in Eukaryotes of Mechanism of Transcription and RNA Processing
- 2.4 Translation in Eukaryotes.
- 2.5 Endomembrane system (Flow of Peptide)

Unit – III : Regulation of Gene Expression

- 3.1 Regulation of Gene Expression in Prokaryotes of Operon concept with special reference to Lac Operon
- 3.2 Regulation of gene expression of Eukaryotes of Britton Davidson Model
- 3.3 Protein Folding Mechanism and Structure (Primary, Secondary, Tertiary and Quaternary)
- 3.4 Protein Sorting of Targeting to proteins to organelles
- 3.5 Protein Trafficking

Unit-IV : Genetic Engineering -

- 4.1 Tools and techniques of recombinant DNA technology,
- 4.2 Restriction Enzymes of Nomenclature and Types
- 4.3 Cloning vectors of Plasmids, Phages, Cosmids
- 4.4 Gene Source- Genomic and c-DNA library

- 4.5 Gene Transfer Techniques ó
Direct - (1) Chemical method, (2) Electroporation, (3) Gene gun method
Indirect ó Agrobacterium mediated gene transfer
- 4.6 Gene Amplification - Polymerase Chain Reaction (PCR)

Unit-V : Plant Tissue Culture -

- 5.1 Basic aspects of plant tissue culture
- 5.2 Laboratory Requirement ó
Infrastructure,
Instruments (laminar air flow, autoclave, growth chamber),
Culture Media (MS Media),
Growth Hormone (Auxin, Cytokinin and Gibberellins)
Sterilization Techniques
- 5.3 Tissue Culture Technique - Cellular totipotency, differentiation and morphogenesis; Callus Culture; Micro propagation

Unit-VI : Applications of Biotechnology -

- 6.1 Agriculture ó Haploid plant production (Anther and Pollen Culture); Protoplast Culture and Somatic Hybridization; Transgenic Plant - BT Cotton, Synthetic seed. Salient achievements of crop biotechnology
- 6.2 Industry ó Fermentation Technology- Bakery Products and Alcohol Productions.
- 6.3 Health Care ó Edible Vaccines
- 6.4 Conservation ó Cryopreservation, Genetically Modified Organisms: - Pros and Cons

LABORATORY EXERCISE

1) Molecular biology (Major) (Any One)

1. Isolation of DNA by crude method
2. Estimation of DNA by Diphenylamine method
3. Estimation of RNA by Orcinol method

2) Molecular biology (Minor) (Any One)

1. Demonstration of DNA Electrophoresis,
2. Demonstration of double helical model of DNA
3. Demonstration of AC-DS System in Maize kernel
4. Demonstration of Centrifugation

3) Biotechnology (Any Six)

1. Working Principle and application of Autoclave

2. Working Principle and application of Laminar Air Flow
3. Cleaning and Sterilization of Glassware
4. Sterilization of Explant
5. Inoculation of Explant
6. Demonstration of in vitro culture techniques ó anther and pollen culture
7. Isolation of Protoplast by Mechanical Method
8. Isolation of Protoplast by Enzymatic Method
9. Demonstration of technique of Micropropagation
10. Preparation of Artificial Seed
11. Demonstration of hardening of tissue culture plant
12. Preparation of Tissue culture media
13. Pollen viability test.

Note: Visit to molecular biology, biotechnological research institute/ industry

PRACTICAL EXAMINATION

Time : 4 hours.

Marks : 50

- Que.1 : To perform given Molecular Biology experiment 15 Marks
Que.2 : Comment on minor molecular Biology Experiment 05 Marks
Que.3 : To perform given Biotechnology experiment 15 Marks
Que.4 : Comment on any one Biotechnology Experiment 05 Marks
Que.5 : Visit report 05 Marks
Que.6 : Class record/ and viva-voce 05 Marks

1. Pradipø Botany Vol. V, Biochemistry and Biotechnology- New Millenium Edition
2. Alberts, B.Bray, D.Lewis, J.Raff, M.Roberts, K. and Watson, I.D. 1999. Molecular Biology of Cell - Garland Publishing Co. Inc New York, U.S.A.
3. Gupta, P.K. 1999 : A Text book of Cell and Molecular Biology, Rastogi Publication, Meerut, India.
4. Wolfe, S.L. 1993. Molecular and Cell Biology. Wordsworth Publishing Co., California, U.S.A.
5. Faku, K. and Nakayama S. 1996. Plant Chromosomes. Laboratory Methods. CRC Press, Boca Raton, Florida.
6. Sharma, A.K. and Sharma, A. 1999. Plant Chromosomes : Analysis; Manipulation and Engineering. Harwood Academic Publishers, Australia.
7. Bhojwani, S.S. 1990. Plant Tissue Culture : Applications and Limi-

1.3 Zoology

1S-ZOOLOGY**LIFE AND DIVERSITY OF NON-CHORDATA**

- UNIT-I :**
1. Classification of Non-Chordata.
 2. Phylum Protozoa: General characters.
 3. Type study: *Plasmodium vivax*: Structure, Life-cycle.
 4. Parasitic protozoan and human diseases: Malaria, Amoebiasis, Trypanosomiasis, Leishmaniasis .
- UNIT-II:**
1. Phylum Porifera: General Characters.
 2. Type study: Scypha: Habits and habitat, External features, cell types, spicules & Structure and significances of canal system.
 3. Phylum Coelenterata: General Characters,
 4. Type study: Metridium: Habits and habitat, External features, Gastro-vascular cavity, Mesenteries, Reproduction.
- UNIT-III:**
1. Phylum Platyhelminthes: General Characters.
 2. Type study: *Fasciola hepatica*: Habits and habitat, External features, Digestive, Excretory, Reproductive system and Life cycle.
 3. Phylum Aschelminthes: General Characters.
 4. Type study, *Ascaris lumbricoides*: Habits and habitat, External features, Digestive, Excretory, Reproductive system and Life cycle.
- UNIT-IV:**
1. Phylum Annelida: General Characters.
 2. Type study: Leech: External features, Digestive, Excretory and Reproductive system.
 3. Phylum Arthropoda: General Characters
 4. Type study: Cockroach: Habits and habitat, External features, Digestive system, Respiratory system, Reproductive system.
- UNIT-V :**
1. Phylum Mollusca: General Characters.
 2. Type study: *Pila globosa*: Habits and habitat, External features (Shell and Body), Digestive, Respiratory and Reproductive system.
 3. Phylum Echinodermata: General Characters.
 4. Type study: *Asterias*: Habits and habitat, External features, Digestive system, Water vascular system,
- UNIT-VI :**
1. Phylum Hemichordata: General Characters, Body organization of *Balanoglossus*, Affinities of *Balanoglossus*, with non-Chordata, and Chordata.
 2. Corals, coral-reefs.
 3. Parasitic adaptations in Helminthes: Morphological and

physiological

4. Larval forms and their significance: Amphiblastula, Planula, Trochophore, Bipinnaria, Brachiolaria,

LIFE AND DIVERSITY OF NON-CHORDATA

Practical : Two practical per week each of 3 period's duration. The Examination shall be of 4 hrs duration and of 50 marks.

I-Life and diversity of non-chordata

1. Observation, Classification up to classes and sketching of the following animals, (Specimens or Models):
 - Phylum Protozoa: *Plasmodium* trophozoite, *Euglena*, *Entamoeba histolytica*.
 - Phylum Porifera: Sycon, Bath sponge, *Euplectella*.
 - Phylum Coelenterata: *Obelia*, *Aurelia*, *Tubipora*.
 - Phylum Helminthes: *Taenia*, *Ascaris* (male & female).
 - Phylum Annelida: Nereis, Earthworm, Leech,
 - Phylum Arthropoda: Prawn, *Limulus*, *Aranea*, *Scolopendra*, *Julus*, Moth, Mosquito.
 - Phylum Mollusca: Chiton, Pila, Dentalium, Unio, Octopus.
 - Phylum Echinodermata: *Antedon*, *Holothuria*, *Echinus*, Sea star, Brittle star
 - Phylum Hemichordata: *Balanoglossus*
2. Study of Permanent slides:

L.S.Sycon, nematocyst, *Ascaris* egg, T.S. *Ascaris* through gonads, T.S.Leech through crop, Compound eye of insect, Radula, Gill lamella and Osphradium of *Pila*, Scolex and Gravid Proglottid of *Taenia*.
3. Anatomical Study through Computer Aided Techniques, Video Clipping Models, Photographs and other available resources :
 - a) Leech/Earthworm: Alimentary canal, Reproductive system, Nervous system,
 - b) Grasshopper/Cockroach: digestive system, Nervous system, Reproductive system
 - c) Culture of *Paramoecium* and *Volvox* (To be given to all students)
4. Mountings :
 - a) Mosquito (*Aedes*, *Culex* and *Anopheles*) : wings, legs, mouth parts
 - b) Housefly: Mouth parts, legs, wings
 - c) *Paramoecium* and *Volvox*

Distribution of Marks during Practical Examination: Time : 4 hrs.

i)	Identification and comments on spots (1-8) - 4 specimens, 4 slides	12 Marks
ii)	Labelling of Anatomical diagrams provided (Two)	10 Marks
iii)	Permanent stained micro preparation	08 Marks
iv)	Study tour diary -	04 Marks
v)	Permanent stained micro preparation Submitted by examinee	04 Marks
vi)	Certified class record -	05 Marks
vii)	Check list of 20 locally available invertebrate fauna.....	02 Marks
viii)	Viva- voce	05 Marks

Total: - 50 Marks

Note:

- 1) One or two short excursion / study tours are compulsory for observation of animals in their natural habitat.
- 2) Candidates shall be required to produce at the practical examination the following.
 - Practical record book duly signed by the teacher in charge and Certified by the Head of the department as bonafide work of the Candidate.
 - Five permanent stained micro preparations.
 - Study tour report and field diary duly signed by the teacher.

Reference Books Recommended (All latest editions):

- 1) Hickman, C.P. Jr.F.M. Hickman and L.S.Roberts, Integrated principles of Zoology Mosby College publication St.Louis.
- 2) Ayyar, E.K. and T.N.Ananthakrishnan, Manual of Zoology Vol.I (Invertebrata), Part-I & II S. Viswanathan (Printers and Publishes) Pvt. Ltd. Madras.
- 3) Jordan, E.L. and P.S.Verma Invertebrate Zoology, S.Chand and Co., Ltd. Ram Nagar, New Delhi.
- 4) Parker and Haswell, Text book of Zoology, Vol. I (Invertebrata), A.Z.T.B.S. Publishers and Distributors, New Delhi - 110051.
- 5) Waterman, Allyn J. etal., Chordate structure and Function, Mac Millan and Co Newyork.
- 6) S.N.Prasad : Text Book of Invertebrate Zoology.
- 7) Vishwanathan : Invertebrate Zoology.

- 8) Majpuria : Invertebrate Zoology.
- 9) Dhami and Dhami : Non-chordate Zoology.
- 10) Bains Prasad: Indian Zoological memoir. Pila.
- 11) R.L.Kotpal : Modern Text Book of Invertebrate Zoology.
- 12) Malviya M.K. Invertebrate Zoology, by Rajdhool publications.
- 13) S.S.Lal, Practical Zoology, Invertebrate.
- 14) Bhamrah H.S.and Kavita Juneja A text book of Invertebrate Zoology, Anmol Publication Pvt. Ltd., New Delhi.
- 15) Verma and Agarwal Practical Zoology, Invertebrate
- 16) - Barnes R.D. Invertebrate Zoology -(W.B. Saunders Co.)
- 17) P.G.Puranik and Thakur, Invertebrate Zoology.

3. Structure of Polytene and Lamp brush Chromosome.

- UNIT-IV:**
1. Mitosis and its significance
 2. Meiosis and its significance.
 3. Gametogenesis: Spermatogenesis and oogenesis
 4. Fertilization: Types of fertilization, Mechanism of fertilization,
- UNITV:**
1. Cleavage, and development up to coelome formation in amphioxus
 2. Cleavage, Blastulation and gastrulation up to the formation of three germ layers in Frog, Fate map.
 3. Cleavage, Blastulation and gastrulation up to the formation of three germ layers in chick.
 4. Extra embryonic membranes in chick: Development and significance.
- UNIT-VI:**
1. Placentation in mammals; Types and Functions of Placenta.
 2. Parthenogenesis: Types and, Significance,
 3. Regeneration in invertebrates and vertebrates.
 4. Elementary idea of, sources, types and use of Stem cells.

CELL AND DEVELOPMENTAL BIOLOGY

I) Cell Biology:-

1. Use, care and maintenance of microscope.
2. Bacterial Culture, Gram staining.
3. Permeability tests using erythrocytes.
4. Preparation of Polytene chromosome in Chironomous or Drosophila larva.
5. Preparation of various stages of mitosis in Onion root tip.
6. Preparation of various stages of meiosis in insect's testis.

II) Developmental Biology.

1. Study of stages of Gametogenesis in rat/frog, (Permanent Stained Slides)
2. Study of different of types animal eggs
3. Study of developmental stages (Life Cycle) of Cockroach, Housefly, mosquito, Butterfly, Moth, Frog (Any Four).
4. Sperm in physiological saline using phase contrast optics.
5. Demonstration of developing chick through available resources.
6. Developmental stages of frog: Cleavage, blastula, gastrula, neurula, and tadpoles through available resources.
7. Permanent slides of chick embryos at 24, 36, 48, 72 hrs of incubation.
8. Study of different types of placenta with suitable histological slides or visual diagrams.

Distribution of Marks during Practical Examination: Time : 4 hrs.

i) Identification and comments on spots (1-8) - 4 Cytological, 4 Embryological	16 Marks
ii) Cytological Preparation	10 Marks
iii) Comments on given Life Cycle	10 Marks
iv) Certified class record -	05 Marks
v) Submission of photographs of any three crop pests	04 Marks
viii) Viva- voce	05 Marks

Total:- 50 Marks

Reference Books Recommended (All latest editions):

- 1) C.B.Pawar ;Cell Biology :
- 2) Alberts Bray, Lewis, Raff, Roberts and Watman Molecular Biology of the cell (Garland)
- 3) Balinsky, An introduction to Embryology, (CBS College Publishers)
- 4) Grant: Biology of developing system (Halt, Reihart and Winston.)
- 5) Gilbert: Developmental Biology (Sinauer)
- 6) Puranik P. G., A Text Book of Embryology S. Chand & Co.
- 7) Browder L.W. Erickson C.A. & Williams Developmental Biology, 1992 3rd edition, R. J. Saunders // College, Publications, London
- 8) Tyagi, Verma and Agrawal: Chordate embryology.
- 9) Dr.R.A.Malu, et.al Text Book of Cell Biology and Developmental Biology - Shivneri Publishers, Amravati.
- 10) Korak Kanti Chaki, Gautam Kunda, and Supriti Sarkar: Introduction to General Zoology Vol. 1 and Vol.2
- 11) De Robertis Cell and Molecular biology

**List of necessary Equipments / Apparatus required
for the Zoology Practical.**

1. Compound Microscope	-	16
2. Dissecting Microscope	-	16
3. Dissection Box	-	02
4. Dissecting Trays	-	25
6. Phase contrast microscope	-	01
7. Computer set with LCD.		
8. Glass aquarias	-	3
9. Dissection Accessories.		
10. Scale reader		

- 11 Hot air oven.
- 12 Weighing Balance (Single Pan Balance)
13. Refrigerator

BSc. II Semester III

10. ZOOLOGY

There shall be the following paper and practical for B.Sc. Part-II Semester III examination. The syllabus is based on 6 theory periods and six practical periods per week (Total 75-80 theory sessions and 25 practical sessions during the complete semester). There shall be one compulsory theory paper of 3 hours duration, as stated below and a practical examination extending for four hours. Every examinee shall offer the following paper of 100 marks (80 for written examination and 20 marks for internal assessment) and a practical examination of 50 marks. Candidates are required to pass separately in theory and practical examination.

Semester III

1) Paper-I:	
Life and diversity of Chordata and concepts of evolution	Marks Allotted
Written examination.....	80
Internal assessment.....	20
2) Practical:	50
Total:	<hr/> 150 Marks

Paper -3 S-Zoology

LIFE AND DIVERSITY OF CHORDATA AND CONCEPT OF EVOLUTION

Unit I : Phylum Chordata;

Origin of Chordata.

Protochordates:- Type study: Amphioxus: Habits and habitat, External Characters - Digestive system and feeding, Excretory organs, gonads- Affinities of Amphioxus.

Affinities of Agnatha:**Series Pisces:**

Type study: *Scoliodon sarrokawah* (Dogfish) – Habits and habitat, External Characters, Digestive system: alimentary canal and digestive glands, Respiratory system: respiratory organ and mechanism of respiration, circulatory System: Structure and working of Heart, major arteries and veins, Lateral line receptors, Migration in fishes-Types, causes and significance.

Unit II : Class Amphibia:

Type Study – *Rana tigerina*, Habits and habitat, external, characters. Respiratory organs- Circulatory system; Structure of Heart, major arteries and veins, urinogenital system.. Parental care in amphibia.

Class Reptilia:

Type study- *Calotes versicolor*- Habits and habitat, External characters, circulatory system- Structure of Heart, major arteries and veins. Urinogenital system, snake venom and anti-venom,

Unit III : Class Aves:

Type study: Pigeon-*Columba livia* Habits and habitat, External characters, Respiratory system, urinogenital system. Flight adaptations, Migration in birds.

Class Mammalia:

Primitive mammals: salient features of Prototheria and Metatheria, Morphology of mammalian endocrine glands. Aquatic mammals.

Unit IV : Evolution: Meaning and scope,

Indirect Evidences of evolution: Evidences of organic evolution - morphological and anatomical, physiological and biochemical, embryological.

Direct evidences of evolution: Paleontological evidences: Fossils and fossilization: petrified fossils dead and preserve bodies cast and moulds, trails and foot prints, condition for fossilizations. –, Radioactive carbon dating of fossils - Living fossils. Importance of fossil record. Evidences from connecting links- Peripatus and Archaeopteryx.

Unit V : Evolutionary Processes: Natural selection: Darwinism.Lamarckism.

Speciation - definition of species ómode of speciation ó Allopatric and Sympatric speciation.

Modern concept of organic evolution-Neo Darwinism. Population Genetic :Hardy óWeinberg equilibrium, Gene pool, Gene frequency, Genetic drift, Convergent, Divergent and Parallel evolution, Coevolution

Unit VI : Adaptive radiations in mammals.

Evolution of Man- brief accounts of Parapithecus, Dryopithecus, Ramapithecus, Australopithecus, Homoerectus Neanderthal man,

Cro-Magnon man and modern man.

Evolution of heart, aortic arches, and urinogenital systems of vertebrates

Animal Adaptation: Desert aquatic and terrestrial.

REFERENCE BOOKS:

1. Integrated Principles of Zoology, 7th Edition, Hickman, C.P. Jr., F.M.Hickman and L.S. Roberts, 1984. Times Mirror/Mosby College Publication. St. Louis. 1065 pp.
2. A life of Vertebrate ó K.Z.Young, ELBS Oxford University Press.
3. A Text Book of Chordates ó H.S.Bharmah and Kavita Juneja.
4. Modern Text Book of Zoology Vertebrate ó R.L.Kotpal, Rastogi Publication Meerut.
5. A Text Book of Chordates ó A .Thangamani, S, Prasannakumas, L.M.Narayanan and
6. Arunmugam Saras Publication, Nagercoil.
7. A Text Book of Chordate Zoology ó R.C.Dalela ó Jaiprakashnath Publication Meerut.
8. Chordate Zoology ó E.L.Jordan and P.S.Verma, S.Chand and Company New Delhi.
9. A Text book of Practical Zoology Vertebrate ó S.S.Lal, Rastogi. Publication, Meeru
10. Manual of Zoology Vol. II (Chordata), S. Viswanathan (Printers and Publishers) Pvt Ltd., Madras, 891p.

11. Chordate Zoology and Elements of Animal Physiology, Jordan, E.K.and P.S. Verma, 1995. 10th edition, S. Chand & Co Ltd., Ram Nagar, New Delhi, 1151 pp.
12. Zoology of Chordates, Nigam, H.C., 1983. Vishal Publications, Jalandhar - 144 008, 942.
13. The Phylum Chordata, Newman, H.H., 1981. Satish Book Enterprise,Agra - 282 003, 477 pp.
14. Text Book of Zoology, Vol. II (Chordata), Parker and Haswell, 1964.A.Z.T,B.S. Publishers and Distributors, New Delhi - 110 051, 952 pp
15. Chordate Structure and Function, Waterman, Allyn J. et al., 1971. Mac Millan & Co., New York, 587 pp.
16. Simpson, G.C. 1967 - The meaning of Evolution. Revised Edition ó New Haven, Yale University Press.
17. Colbert, E.H. 1969 - Evolution of Vertebrates, Wiley, New York.
18. Mayr, Ernst, 1973 - Animal Species and Evolution. The Belknap Press of Harvard University, Cambridge.
19. Dobzansky, T. 1976 - Genetics and the Origin of Species. Oxford and TBH Publishing Co. New Delhi.
20. Savage, J.M. 1976 - Evolution. Amerind Publishing Co. Pvt. Ltd. New Delhi.
21. Elic. Minkoff, 1983 - Evolutionary Biology, Addison Wesley.
22. Life, Origin, Evolution and Adaption (2002) - Sanjib Chattopadhyay. Books and Allied (p) Ltd.
23. P.S.Verma & V.K.Agrawal.(2008) Cell Biology, Genetics, Molecular Biology, Evolution & Ecology ó S. Chand Publications.
24. Dhabade. D.S. I. A. Raja. R.A>Gulhane. A.P.Charjan. A.K.Patki., And P.S.Patil.,A Text Book of Evolution: Sanket Publicatin. Washim
25. Zoology for Degree Students, Prof.Dr.V.K.Agrawal.

Practical:-

Two practical per week of 3 periods duration. Examination shall be of 5 Hrs duration and of 50 marks.

- A) Taxonomy of Chordata:**
- General characters and classification of Phylum Chordata:**
 - General characters and Classification up to orders of the following chordates or as per the availability in the laboratory from the major orders, (Specimens or Models):**
Protochordata: Herdmania, Doliolum Salpa, Amphioxus.
Agnatha: Petromyzon, Myxine.
Pisces: Scoliodon, Torpedo, Acipenser, Exocoetus. Hippocampus
Amphibia: Ichthyophis, Salamander, Bufo, Hyla.
Reptilia: Varanus, Phrynosoma, Chameleon, Cobra, krait, Russell's viper, Typhlops, Hydrophis
Aves: Duck, Woodpecker, Kingfisher, Parrot.
Mammalia: Mongoose, Squirrel. Manis. Bat., monkey.
- B) Dissections:**
- Dissection - afferent and efferent branchial vessels, cranial nerves, internal ear of scoliodon.
 - Dissection - Digestive system, Arterial system, venous system, reproductive system of rat.
 - Permanent micro-preparations .a. Fish scales. b. Ampullae of Lorenzini. c. Eyeball muscles.
 - Observations of air bladder in air breathing fishes.
- C) Osteology.** Rabbit, Varanus (excluding loose bones of skull).
- D) Evolution:**
- Study of fossils, including living fossils.
 - Study of Evidences of evolution.
 - Analogous and Homologous organs.
 - Connecting links (Peripatus, Archaeopteryx, Limulus)
 - Embryological evidences
 - Application of Hardyweinberg`s law
 - Study of Mesozoic Reptiles (By Models/Charts).
 - Mimicry, coloration in animals.
 - Beak and Leg modifications with reference to: Parrot, Woodpecker, Kingfisher, Heron, Duck, Sparrow/Pigeon Hawk/Kite, Owl.

E) Histological Slides :- Amphioxus, Frog, Rat

Slides :

- Amphioxus :** T.S, Oral hood, Pharynx, Tail
Frog :- T.S. lung, Stomoch, Kidney, T.S. Intestine,
Rat :- T.S. Liver, Pancrease, Ovary, Testies, Pituitary, Thyroid, Adrenal

DISTRIBUTION OF MARKS FOR PRACTICALEXAMINATION.

1. Dissection: -	10
2. Permanent stained micro preparation.	05
3. Spotting. (Specimens, Slides, bones, fossil)	10
4. Practical on evolution -	10
5. Class record	05
6. Viva - Voce	05
7. Submission of study tour report.	05

Total Marks: 50

BSc.II Semester IV

ZOOLOGY

There shall be the following paper and practical for B.Sc. Part-II Semester IV examination. The syllabus is based on 6 theory periods and six practical periods per week (Total 75-80 theory sessions and 25 practical sessions) during the complete semester. There shall be one compulsory theory paper of 3 hours duration the semester, as stated below and a practical examination extending for four hours. Every examinee shall offer the following paper of 100 marks (80 for written examination and 20 marks for internal assessment) and a practical examination of 50 marks. Candidates are required to pass separately in theory and practical examination.

Semester IV

1) Paper-I:	Marks Allotted
Advanced Genetics and Animal Ecology.	
Written examination í í í ..	80
Internal assessment í í í .	20
2) Practical:	50
Total:	150 Marks

ZOOLOGY Paper 4S
ADVANCED GENETICS AND ANIMAL ECOLOGY

UNIT I : Concept of genes.

Mendel's laws of hereditary ó Monohybrid ó Laws of dominance, law of segregation. Dihybrid cross ó Law of independent assortment. Interactions of genes: , Supplementary factor, complementary factor, duplicates factor, inhibitory factors, and lethal factors ó dominant and recessive.

UNIT II : **Linkage** - Types of linkage, linkage group, arrangement of linked genes, and significance of linkage.

Crossing over ó Mitotic and meiotic crossing over, Mechanism of crossing over, theories of crossing over ó Darlington's theory, breakage and exchange theory, and copy choice theory. Types of crossing over ó Single, double and multiple crossing overs. Factors affecting crossing over, Significance of crossing over.

Multiple alleles. Multiple alleles in relation to eye color in Drosophila. Blood group in man, Erythroblastosis foetalis

UNIT III : **Sex determination:** Autosomes and sex chromosomes, Sex determination in animals, Chromosomal Theory. Genic Balance Theory. Environmentally and hormonally controlled sex determination, Gynandromorphs.

Genetic disorders; Sickle cell anemia, , Huntington's chorea. Diabetes mellitus. Non-disjunction: Turner's syndrome, Klinefelter's syndrome, Down's syndrome. Edwards

Syndrome, Biochemical genetics:; Cystic fibrosis, Phenylketonuria, Albinism, Alkaptonuria, Goiters, cretinism. Sex linked genetic disorders and their inheritance in man; Hemophilia and color blindness.

UNIT IV : **Genetic Screening and parental diagnosis:** - Parental, Carrier, Predictive, CVS (Chorionic Villous Sampling), Amniocentesis, Gene probe and DNA analysis. Genes in Human Heredity: - Inheritance of eye color. Skin color. Recessive genes and consanguineous marriages Genetic counseling: - Risk of marriages in affected family. Birth control measures (male and female).

Kinds of twins: - Identical, Fraternal, Siamese twins. .Significance of twins study

UNIT V : **Ecology:** concept and scope:

Abiotic factors:

Water: Properties, water problem in terrestrial and aquatic habitat. **Temperature:** Temperature range, Temperature tolerance, Effects of temperature on animals. Homeotherms, poikilotherms. Dormancy, hibernation, aestivation & diapauses. **Light:** Spectral

distribution, Biological effects of light on aquatic and terrestrial animals: Reproduction, Metamorphosis, pigmentation, vision, photokinesis, phototropism, photoperiodism, migration.

Biotic factors:

Intra specific and interspecific associations, Predation, parasitism, Antagonism. , commensalisms, mutualism, competition, (Gause's Principle).

UNIT VI : **Ecosystem:** *Relationship between habitat and ecological niche* - Autotrophic and heterotrophic producer, consumer - trophic level - energy flow in an ecosystem - food chain - food web - pyramids - Ecotypes. Homeostasis of ecosystem.

Terrestrial ecosystem: Classification and Biomes, Aquatic ecosystem: Fresh water ecosystem-Lentic and lotic ecosystem,

Marine ecosystem: Characteristics, salinity, temperature - pressure, zonation and stratification Estuarine ecology: Characteristics types, fauna and their adaptations.

REFERENCE BOOKS:

1. Cell Biology, Genetics, Molecular Biology, Evolution & Ecology ó P.S.Verma & V.K.Agrawal.
2. Principles of Genetics ó S.K.Jain
3. Genetics ó P.K.Gupta
4. Applied Genetics ó C.Pmmanuol.
5. Genetics: M.W.Strickberger, New York.
6. Principles of Genetics: Sinnot, Dunn and Dobzansky.
7. Principles of Genetics: Edidon Gardner.
8. Genetics. Verma, P.S. and V.K. Agarwal.. S.Chand & co. New Delhi
9. Gene VI.Lewin, B. 1998. Wiley Eastern Ltd., New Delhi.
10. Human Genetics. Rothwell, N.V.1979. Prentice Hall of India, New Delhi

Practical:-

Two practical per week of 3 periods duration. Examination shall be of 5 Hrs. duration and of 50 marks.

A) Genetic experiments:

1. Recording of Mendelian traits in man.
2. Detection of monohybrid and dihybrid cross with the help of plastic beads.
3. Culturing *Drosophila* using standard methods .*Drosophila* ó male and female identification, Mutant forms (from pictures)
4. Demonstration of bar bodies.
5. Preparation of human Karyotypes from Xerox pictures.
6. Photo slides for, Turnerø syndrome, Klinefelterø syndrome, Downø syndrome
7. Detection of syndrome from chromosome spread picture.
8. Study of following human genetic traits and application of Hardy-Weinberg Principle to them ó Baldness, length of index and ring Finger, attached and free earlobes, rolling of tongue, PTC taste. Other notable traits.

B) Ecology

1. Use of pH meter for estimation of pH in soil samples, b. Use of pH meter for estimation of pH in water samples
2. Estimation of Dissolved oxygen, salinity, pH, free CO₂, carbonates and bicarbonates, calcium in water samples.
3. Adaptations of aquatic and terrestrial animals based on a study of museum specimens. Such as rocky, sandy, muddy shore animals, flying and burrowing animals.
4. Study of natural ecosystem and field report of the visit.
5. Field collection methods;
6. Identification of common animals - Soil invertebrate diversity, diversity of birds and mammals in parks / botanical gardens, threats to local biodiversity.
7. Construction of a food web diagram based on a field visit.
8. Mounting of plankton.
9. Qualitative analysis of fresh water plankton

C) General:-

1. Visit to a National park or sanctuary, and submission of report.

DISTRIBUTION OF MARKS FOR PRACTICAL EXAMINATION.

1. Ecological: Estimations -/Analysis	10
2. Spotting. (2Spot from Sec.A & 3 Spot from Section B of 2 Marks each)	10
3. Micro preparation.	05
4. Genetic experiment -	10
5. Class record	05
6. Viva - Voce	05
7. Submission of study tour report.	05

Total Marks : 50

**B.SC. FINAL, SEMESTER-V
10 : ZOOLOGY**

There shall be the following paper and practical for B.Sc. Part-III Semester V examination. The syllabus is based on 6 theory periods and six practical periods per week (Total 75-80 theory sessions and 25 practical sessions during the complete semester). There shall a compulsory theory paper of 3 hours duration, as stated below and a practical examination extending for five hours. Every examinee shall offer the following paper of 100 marks (80 for written examination and 20 marks for internal assessment) and a practical examination of 50 marks. Candidates are required to pass separately in theory and practical examination.

**Theory -5 S-ZOOLOGY:
(ANIMAL PHYSIOLOGY AND ECONOMIC ZOOLOGY)**

	Marks Allotted
1) Written examination	80
Internal assessment	20
2) Practical:	50
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Total:	150 Marks

**Paper 5 S-ZOOLOGY
(ANIMAL PHYSIOLOGY AND ECONOMIC ZOOLOGY)**

Max. Marks - 100 Total

Period - 75

UNIT I : Respiration:

Structure of respiratory organs: Gills and Lungs

Mechanism of respiration: regulation of ventilation in lungs, exchange of gases at respiratory surface, Respiratory pigments in animals: Haemoglobin, Haemocyanin, Haemerythrin, chlorocruorin. Transport of gases: O₂ and CO₂ transport, Neurophysiologic control of respiration,

Circulation:

Blood : Definition and its constituents, functions of blood.
Heart: Structure of human heart, pace maker, Cardiac cycle.
Blood coagulation factors, blood groups A, B, O system and Rh-factor.

UNIT II: Muscle Physiology:

Types of Muscles: striated, non-striated and cardiac muscles

E.M. Structure and **Chemical** Composition of striated muscle, Neuromuscular junction.

Mechanism of muscle contraction by Sliding filament theory

Physical and Chemical changes during muscle contraction: muscle twitch, tetanus, isometric and isotonic contraction, summation of Stimuli, all or none law, fatigue, rigor mortis.

UNIT III : Nerve Physiology: Neuron: E.M. Structure of neuron and Types : Myelinated and non-Myelinated nerve fibres.

Conduction of Nerve impulse, Resting potential, initiation and propagation of action potential, Saltatory transmission, Neurotransmitters (Acetylcholine, dopamine, GABA, Serotonin, Epinephrine, Nor-Epinephrine), Synapse and synaptic transmission

Chemical co-ordination: Endocrine system: Hormones and their physiological roles of-

Pituitary, Thyroid, Parathyroid, Adrenal, Islets of Langerhanø,

Hormonal disorders: Dwarfism, Gigantism, Acromegaly, Goiter, Myxoedema, Cretinism, Osteoporosis,

UNIT IV : Reproductive Physiology: Estrous and menstrual cycle, hormonal control of reproduction in males and female, Structure and physiology of mammalian Placenta.

Homeostasis and conservative regulation: Osmoregulation and ionic regulation in aquatic animals. Osmoregulation in terrestrial animals Ammonotelism, ureotelism and uricotelism.

Thermoregulation in Poikilotherms and Homeotherms.

UNIT V : Agricultural Zoology: Economic importance of Insects

Beneficial insects ô Spider, Mantis, Ladybugs, Damsel bug, Mealybug destroyer, Soldier beetle,

Green lacewing, Syrphid fly, Tachinid fly, Ichneumon wasp

and Trichogramma wasp.

Harmful Insects – Stored food grain pests, their injuries and control

Pests of, Cotton, Sugarcane and Jowar. Damage and Control
Economic importance of Rodents, Snakes, Owls and Bats.
Apiculture - Sericulture -

Unit VI : Aquaculture

Aquaculture: definition, scope, importance and present status in India.

Fresh water fish culture: types of fish ponds: Nursery, rearing and stocking, design and construction of fish pond, fertilizers used for fish development.

Hatching Hapas, Chinese Circular Hatchery, CIFE, Mumbai, hatching model, Induced breeding and hypophysation, Modern drugs used in fish breeding.

Freshwater system: monoculture, polyculture, integrated aquaculture, cage culture, pen culture . Fish products and byproducts: Fish liver Oil, Fish body oil, Fish manure, Fish leather

Special Note : (Common for B.Sc.Sem-I & VI)

- (i) Use of animals for practical purpose in this curriculum is subject to the conditions, under the Wild Life (Protection) Act 1972 and should abide by the prevention of cruelty to animals Act 1960. No any scheduled animal species should be used in the laboratory.
- ii) The research based project on animals should strictly abide by the rule as mentioned in para-6 of U.G.C. Notification No.F.14-6/2014 (CPP-II), dated 1st August, 2014, which state that
 - 6.1 All institutions of Higher Education shall constitute Dissection Monitoring Committees (DMC) to ensure strict compliance of instructions relating to the use of animals for research purposes only;
 - 6.2 The Head of the concerned department shall be the Convener and Chairperson of DMC. Two Senior faculty members of the concerned department, one faculty member

of a related department from the same institution and one or two Faculty members of the concerned department from the neighboring institution(s) shall be members of DMC.

- 6.3 The tenure of DMC shall be two years and on expiry of a term, the DMC should be reconstituted wherein only the Convener and Chairperson (The Head of the Department) may continue for two or more terms if he/she happens to continue to be the Head of the Department. A vacancy arising during the tenure of DMC shall be filled with a faculty belonging to the respective category. The quorum for the meeting shall be 3 out of 6, where in at least one member from the neighboring institution must be present. The DMC shall meet at least once each semester/ half year and approve/review alternative experimentation of animals for laboratory exercises.
- 6.4 It shall be the responsibility of the DMC to ensure that animals that are permitted to be used for dissections / experiments in the instructions herein are procured from ethical sources, and not removed from the wild, transported to the laboratory without stress or strain to the animals, if live, and anaesthetized appropriately if they are to be used in dissections.
- 6.5 The DMC shall ensure that the institution maintains appropriate records of procurement of animals, their transport, number of animals used, use of anesthesia/ euthanasia etc.
- 6.6 The DMC shall be different from the Institutional Animal Ethics Committee (IAEC), under the purview of Committee for purpose of care and supervision of experimental animals (CPCSEA), Department of Environment and Forest, Govt. of India. However, the DMC shall not have powers to overriding the powers of IAEC. For animals covered by the IAEC, with standard operating procedures (SOPS) for IAECs prescribed by CPCSEA will apply.

- iii) Those Institutions which are already having Zoology museums should not procure museum specimens now onwards and should use charts / slides / models / photographs and digital alternatives in case of need. Those new institutions which are not having Zoology museum in their department should provide learning related to zoological specimens with the help of charts / slides / models / photographs and digital alternatives / and arrange visit of students to already established museums.

Practicals:

1. Detection of blood groups in human being.
2. Differential counts of blood.
3. Estimation of hemoglobin percentage with the help of haemometer.
4. R.B.C. count.
5. W.B.C. count.
6. Preparation of haemin crystals
7. Measurement of blood pressure.
8. Action of salivary amylase on starch.
9. Qualitative detection of nitrogenous waste products (Ammonia, urea, uric acid) in given sample.
10. Demonstration of kymograph unit, Respirometer through available resources.
11. Observation and identification of Insect Pests of local crops, and predator insects.
12. Life Cycles of Honey bee, Lac insect, Silk Moth.
13. Histological Slides of major organs of Respiratory systems, circulatory system, Nervous system, Different types of Muscles, Endocrine glands, testis, ovary.
14. Study of locally available fishes, Indian major carps, Exotic carps, Common carp.

Distribution of marks for practical examination :

Time: 5 Hrs. Marks

- | | |
|----------------------------------|----|
| 01. Physiological Expt. | |
| a) Major | 10 |
| b) Minor | 05 |
| 02. Economic Zoology & Histology | |

- | | |
|---|----|
| a) Spotting (A-F) | 12 |
| b) Description and Comments on Topic from Unit V and VI | 08 |
| 04. Class record duly signed by teacher in charge and certified by H.O.D. | 05 |
| 05. Study tour report. | 05 |
| 06. Viva - voce | 05 |

Total Marks 50

REFERENCES

1. Prosser and Brown : Comparative Animal Physiology
2. Histological Slides of Respirator systems, circulatory system, Muscles, Nervous system Endocrine glands, Gonads, placenta
3. Guyton : Physiology
4. Best and Taylor : Physiological basis of Medical practice
5. C Hoar, W.S.. General and comparative Physiology. Prentice Hall of India.
6. Lehninger. L.. Biochemistry. W.H. Freeman & co.
7. Nagabushnam, R.. Animal physiology. S.Chand & co.
8. Martin, D.W. P.A. Mayes and W.W. Rodwell., Harper & Review of Biochemistry lange Medical Publications.
9. Prosser, C.L. and F.A.Brown Comparative Animal physiology. W.B. Saunders.
10. Rama Rao, A.V.S.S.. Biochemistry. UBSPD.
11. Stryer. L. Biochemistry Wiley International
12. Verma, P.S. and V.K. Agarwal.. Animal physiology. S.Chand & co.
13. Wilson, J.A., Principles of Animal Physiology, Macmillan
14. Chatterjee, C.J; Human Physiology(Vol-I and II)
15. Economic Zoology, G.S. Shukla, V.B. Upadhyay (2006)
16. Text Book of Applied Zoology, Pradip. V Jabde (2005).
17. Mac E. Hadley: Endocrinology, Prentice Hall, International Edition, 2000

B.SC. FINAL, SEMESTER-VI ZOOLOGY

There shall be the following paper and practical for B.Sc. Part-III Semester VI examination. The syllabus is based on 6 theory periods and six practical periods per week (Total 75-80 theory sessions and 25 practical sessions during the complete semester). There shall a compulsory

theory paper of 3 hours duration, as stated below and a practical examination extending for five hours. Every examinee shall offer the following paper of 100 marks (80 for written examination and 20 marks for internal assessment) and a practical examination of 50 marks. Candidates are required to pass separately in theory and practical examination.

Theory -6 S-ZOOLOGY

(MOLECULAR BIOLOGY AND BIOTECHNOLOGY)

	Marks Allotted
1) Written examination	80
Internal assessment	20
2) Practical:	50
	ô ô ô ô ô ô ô ô ô
Total:	150 Marks

Paper- 6 S-ZOOLOGY

(MOLECULAR BIOLOGY AND BIOTECHNOLOGY)

Max. Marks - 100

Total Period - 75

UNIT – I : Genetic material-definition, Experiments to prove DNA as genetic material:Griffiths transformation experiments with bacteriophage infections, Avery and co-workers experiments, and Hershey and Chase experiment. Chemistry and types DNA(A,B,Z)Mitochondrial DNA; Chemistry, types and function of RNA: mRNA, tRNA and rRNA and Non Genetic RNA.

UNIT - II : DNA replication: semi conservative method; experiment by Messelson and Stahl.

Concept of genes, one gene one enzyme hypothesis, one gene one Polypeptide theory.; A brief account of Concept and action of cistron, split genes, overlapping genes, jumping genes, Genetic diseases: Spinocerebellar ataxia.

UNIT-III : Genetic code and its features, Protein synthesis-transcription and processing of mRNA, translation-different steps, Gene regulation: (promoter and operator), Operon models, and Lac-operon model of E.Coli. Genetic regulation in Eukaryotes-Britten Davidson Model.

UNIT-IV : Mutation: Definition-mutation theory of DeVries-different types of mutations, - molecular basis of mutation:

substitution and frameshift mutations, chromosomal aberrations-structural(deletion, addition, inversion and translocation),numerical (euploidy and aneuploidy). Natural and induced mutations-significance of mutations.

DNA repair process.

Polymerase chain reaction (PCR). Southern, Northern and Western blotting techniques, DNA finger printing.

UNIT – V : Biotechnology:. Genetic Engineering: Recombinant DNA technology and gene cloning-enzymes in recombinant DNA technology, Splicing and cloning of genes, vectors (plasmid and phage vectors), gene Transfer. Somatic cell hybridization, hybridoma technology, and monoclonal antibodies. Practical applications and suspected hazards of biotechnology and genetic engineering in animals.

UNIT-VI : Immunology: Introduction to immune system: Innate and adaptive immunity, Types and production of immune cells ; Complement system.

Humoral Immunity: Antigen and haptens, Antibody: types function, and production.

Cell mediated immunity: T-cell receptors, T helper cell and lymphocyte activation

Role of cytotoxic T-cell..ELIZA Technique RIA.

Practicals:

1. Microtechnique scope and importance.
2. Preparation of fixatives - Alcohol, Acetone, Formalin, Bouin's fluid, Cornoy fluid, Formal sublimate.
3. Collection of various tissues/organs from slaughter house for micro-technique
4. Preparation of Alcoholic grades, dehydration and clearing of tissues
5. Use and care of Oven
6. Embedding and block making, trimming of block.
7. Use and Care of different types of Microtome.
8. Honing and stropping Knives
9. Section cutting and spreading,

1.4 English Literature

**SYLLABUS
PRESCRIBED FOR
B. A. - Part I EXAMINATION
Semester I
English Literature**

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSTMENT: 20 MARKS

UNIT I

Text Prescribed : A Background to the study of English Literature by B.Prasad.

Chapters Prescribed :

Chapter – I Subjective & Objective

Chapter – II Poetic Forms (All)

Chapter – III Stanza Forms (All)

UNIT II

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan.

POETRY :

The following Poems are prescribed :

1. Upagupta – Rabindranath Tagore
2. After Apple –Picking - Robert Frost
3. The Chimney Sweeper - William Blake
4. Dover Beach - Matthew Arnold
5. A prayer for my Daughter - W.B Yeats

UNIT III

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan.

A) Introduction to the Literary Terms -I

Following Literary Terms are prescribed :

- | | |
|-----------------------|--------------------|
| 1. Allegory | 9. Folklore |
| 2. Dramatic Monologue | 10. Irony |
| 3. Blank Verse | 11. Tragedy |
| 4. Comedy | 12. Parody |
| 5. Conceit | 13. Diction |
| 6. Style | 14. Poetic Justice |
| 7. Plot | 15. Pathos |
| 8. Setting | 16. Free Verse |

B) Introduction to Literary Theory - I

Following Literary Theories are prescribed :

1. Rasa Theory
2. New Criticism
3. Existentialism

UNIT IV

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan

ONE ACT PLAY :

The following One Act Plays are prescribed :

1. The Proposal - Anton Chekhov
2. While the auto waits - O. Henry

UNIT-V

MULTIPLE CHOICE QUESTIONS -

Based on Unit I, II, III & IV.

English Literature

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MIN PASSING MARKS : 32 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

Unit I : A Background to the study of English Literature

i) The students will have to answer FOUR out of SIX questions in 200 words each questions.

(Each carries FOUR marks) = 16 Marks

Unit II : Poetry

i) The students will have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks

ii) The students will have to attempt TWO out of FOUR passages for explanation with reference to the context (Each carries FOUR marks) = 8 Marks

Unit III :

A) Introduction to Literary Terms

The students will have to answer THREE out of FIVE Literary Terms

(Each carries THREE marks) = 9 Marks

B) Introduction to Literary Theory

The students will have to answer ONE out of TWO Literary Theories

= 7 Marks

Unit IV : ONE ACT PLAY

The students will have to answer TWO out of THREE long answer questions.

(Each carries EIGHT marks) = 16 Marks

Unit V : Multiple Choice Questions (MCQ)

The students will have to answer SIXTEEN MCQ's

(Each carries ONE mark) = 16 Marks

Internal Assessment

i) Viva- Voce

= 10 Marks

ii) Assignments (Assignments based on prescribed syllabus)

= 10 Marks

**SYLLABUS
PRESCRIBED FOR
B. A. - Part I EXAMINATION
Semester II
English Literature**

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

UNIT I

Text Prescribed : A Background to the study of English Literature by B.Prasad.

Chapter Prescribed :

CHAPTER IV: Schools and Movements

Following School & Movements are prescribed :

- The Metaphysical School of Poets
- The Classical Movement
- The Romantic Revival
- The Pre Raphaelites
- The Poet of the 1st World War
- The Poet of the 2nd World War

UNIT II

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan.

POETRY :

The following Poems are prescribed :

1. The Pulley - George Herbert
2. The World is too much with us - William Wordsworth
3. Ode To Solitude - Alexander Pope
4. Father Returning Home - Dilip Chitre
5. Ozymandius - P.B Shelley

UNIT III

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan.

A) Introduction to the Literary Terms – II

Following Literary Terms are prescribed :

1. Chorus
2. Prologue
3. Epilogue
4. Genre
5. Pastoral
6. Paradox
7. Melodrama
8. Imagery
25. Humour
26. Gothic Novel
27. Rhyme
28. Rhythm
29. Cadence
30. Caesura
31. Stress
32. Intonation

B) Introduction to Literary Theory

Following Literary Theories are prescribed :

1. Reader Response Theory
2. Orientalism
3. Cultural Studies

UNIT IV

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan.

ONE ACT PLAY :

The following One Act Plays are prescribed :

1. Riders to the Sea - J.M Synge
2. The Dear Departed - Stanley Houghton

UNIT -V

MULTIPLE CHOICE QUESTIONS -

Based on Unit I, II, III & IV.

English Literature

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MIN PASSING MARKS : 32 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

Unit I : A Background to the study of English Literature

- i) The students will have to answer FOUR out of SIX questions in 200 words each questions.
(Each carries FOUR marks) = 16 Marks

Unit II : Poetry

- i) The students will have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks
ii) The students will have to attempt TWO out of FOUR passages for explanation with reference to the context (Each carries FOUR marks) = 8 Marks

Unit III :

A) Introduction to Literary Terms-II

The students will have to answer THREE out of FIVE Literary Terms
(Each carries THREE marks) = 9 Marks

B) Introduction to Literary Theory- II

The students will have to answer ONE out of TWO Literary Theories = 7 Marks

Unit IV : ONE ACT PLAY

The students will have to answer TWO out of THREE long answer questions.
(Each carries EIGHT marks) = 16 Marks

Unit V : Multiple Choice Questions (MCQ)

The students will have to answer SIXTEEN MCQ's
(Each carries ONE mark) = 16 Marks

Internal Assessment

- i) **Viva- Voce** = 10 Marks
ii) **Assignments** (Assignments based on prescribed syllabus) = 10 Marks

**SYLLABUS
PRESCRIBED FOR
B.A PART II EXAMINATION
SEMESTER III
ENGLISH LITERATURE
UNIT I**

Text Prescribed : A Background to the study of English Literature by B.Prasad.

Chapters Prescribed :

Chapter II - The Novel

Chapter III - The Short Story

Chapter IV - Biography and Autobiography

UNIT II

**Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan
POETRY :**

The following poems are prescribed

1. Palanquin Bearers - Sarojini Naidu
2. Between These Lines - S Joseph
3. The Epileptic - Keki N Daruwalla
4. A Walk by Moonlight - Henry Derozio
5. Endless Time - Rabindranath Tagore

UNIT III

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan

A)Introduction to Literary Terms - I

Following Literary Terms are prescribed

1. Point of View
2. Anticlimax
3. Climax
4. Binary Opposition
5. Euphemism
6. Subaltern
7. Oxymoron
8. Picaresque Narrative
9. Epistolary Novel
10. Bildungsroman
11. Ekphrastic Poem
12. Stream of Consciousness Narrative
13. Metafiction
14. Objective Correlative
15. Platonic Love
16. Anti-Hero

B)Introduction to Literary Theories - I

Following Literary Theories are prescribed

1. Archetypal Criticism
2. Russian Formalism
3. Structuralism
4. Narratology

UNIT IV

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan

SHORT STORIES :

Following Short Stories are prescribed

1. A Cup of Tea - Katherine Mansfield
2. The Bird Comes to Yellow Sky - Stephen Crane
3. A Job Well Done - Ruskin Bond
4. The Antidote - R.K Narayan

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on Unit II, III & IV.

**BA Part II
English Literature
Semester III
SGB Amravati University, Amravati**

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MIN PASSING MARKS : 32 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

Unit I : A Background to the study of English Literature

- i) The students will have to answer TWO out of FOUR long answer questions
(Each carries EIGHT marks) = 16 Marks

UNIT II (16 Marks)

Unit II : Poetry

- i) The students will have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks
ii) The students will have to attempt TWO out of FOUR passages for explanation with reference to the context
(Each carries FOUR marks) = 8 Marks

UNIT III (16 Marks)

Unit III :

A) Introduction to Literary Terms

The students will have to answer TWO out of FOUR Literary Terms
(Each carries FOUR marks) = 8 Marks

B) Introduction to Literary Theory

The students will have to answer ONE out of TWO Literary Theories = 8 Marks

UNIT IV (16 Marks)

Unit IV : SHORT STORIES

The students will have to answer TWO out of THREE long answer questions.
(Each carries EIGHT marks) = 16 Marks

UNIT V (16 Marks)

Unit V : Multiple Choice Questions (MCQ)

The students will have to answer SIXTEEN MCQ's
(Each carries ONE mark) = 16 Marks

Internal Assessment

i) Viva- Voce = 10 Marks

ii) Assignments (Assignments based on prescribed syllabus) = 10 Marks

**SYLLABUS
PRESCRIBED FOR
B.A PART II EXAMINATION
SEMESTER IV
ENGLISH LITERATURE
UNIT I**

Text Prescribed : A Background to the study of English Literature by B.Prasad.

Chapters Prescribed :

Chapter I - The Essay

Chapter V - Criticism

Chapter VI - Style

UNIT II

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan

POETRY :

The following poems are prescribed

1. Sonnet - Alice Dunbar-Nelson
2. A Noiseless Patient Spider - Walt Whitman
3. Brahma - Ralph Waldo Emerson
4. Art - Herman Melville
5. The Lonely House - Emily Dickinson

UNIT III

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan

A) Introduction to Literary Terms - II

Following Literary Terms are prescribed

1. Humanism
2. Naturalism
3. Refrain
4. Motif
5. Fantasy
6. Aestheticism
7. Absurdism
8. Alienation Effect
9. Pantomime
10. Decorum
11. Pathetic Fallacy
12. Soliloquy
13. Round & Flat Characters
14. Hypertext
15. Blog
16. Affective Fallacy

B) Introduction to Literary Theories - II

Following Literary Theories are prescribed

1. Post- Colonialism
2. Post - Structuralism
3. Feminism
4. Psychoanalytic Criticism

UNIT IV

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan

ESSAYS :

Following Essays are prescribed

1. Walking Tour - R.L Stevenson
2. The Worship of the Wealthy - GK Chesterton
3. On Revenge - Francis Bacon
4. On The Feeling of Immortality in Youth - William Hazlitt

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on Unit II, III & IV.

**BA Part II
English Literature
Semester IV
SGB Amravati University, Amravati**

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 32 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

Unit I : A Background to the study of English Literature

- i) The students will have to answer TWO out of FOUR long answer questions
(Each carries EIGHT marks) = 16 Marks

UNIT II (16 Marks)

Unit II : Poetry

- i) The students will have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks
ii) The students will have to attempt TWO out of FOUR passages for explanation with reference to the context
(Each carries FOUR marks) = 8 Marks

UNIT III (16 Marks)

Unit III :

A) Introduction to Literary Terms

The students will have to answer TWO out of FOUR Literary Terms
(Each carries FOUR marks) = 8 Marks

B) Introduction to Literary Theory

The students will have to answer ONE out of TWO Literary Theories = 8 Marks

UNIT IV (16 Marks)

Unit IV : ESSAYS

The students will have to answer TWO out of THREE long answer questions.
(Each carries EIGHT marks) = 16 Marks

UNIT V (16 Marks)

Unit V : Multiple Choice Questions (MCQ)

The students will have to answer SIXTEEN MCQ's
(Each carries ONE mark) = 16 Marks

Internal Assessment

i) **Viva- Voce = 10 Marks**

ii) **Assignments** (Assignments based on prescribed syllabus) = **10 Marks**

**BA Part III
English Literature
Semester V
SGB Amravati University, Amravati**

TIME: 3 HOURS

MAX MARKS THEORY: 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS: 32 MARKS

MIN PASSING MARKS: 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

Unit I : A Background to the study of English Literature

i) The students shall have to answer TWO out of FOUR long answer questions
(Each carries EIGHT marks) = 16 Marks

UNIT II (16 Marks)

Unit II : Poetry

i) The students shall have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks
ii) The students shall have to attempt TWO out of FOUR passages for explanation with reference to the context
(Each carries FOUR marks) = 8 Marks

UNIT III (16 Marks)

Unit III :

A) Introduction to Literary Terms

The students shall have to answer TWO out of FOUR Literary Terms
(Each carries FOUR marks) = 8 Marks

B) Introduction to Literary Theory

The students shall have to answer ONE out of TWO Literary Theories = 8 Marks

UNIT IV (16 Marks)

Unit IV : Macbeth

The students shall have to answer TWO out of THREE long answer questions.
(Each carries EIGHT marks) = 16 Marks

UNIT V (16 Marks)

Unit V : Multiple Choice Questions (MCQ)

The students shall have to attempt SIXTEEN Multiple Choice Questions
(Each carries ONE mark) = 16 Marks

Internal Assessment

i) Viva- Voce = 10 Marks

ii) Assignments (Assignments based on prescribed syllabus) = 10 Marks

**SYLLABUS
PRESCRIBED FOR
B.A PART III EXAMINATION
SEMESTER VI
ENGLISH LITERATURE
UNIT I**

Text Prescribed : A Background to the study of English Literature by B.Prasad. (Section II DRAMA)

Chapters Prescribed :

Chapter II - 2) Tragi-comedy

Chapter III - 2) Soliloquy and Aside

Chapter VI - 1) Shakespearean Comedy 3) Shakespearean Romance

UNIT II

Prescribed Textbook: Magic Casements by Board of Editors, Published by Orient Blackswan

POETRY:

The following poems are prescribed

1. Ulysses: Alfred Tennyson
2. Tiger and the Deer - Aurbindo
3. La Belle Dame Sans Merci - John Keats
4. Song of Myself- (Section I) Walt Whitman
5. Death Be Not Proud - John Donne

UNIT III

Prescribed Textbook : Magic Casements by Board of Editors, Published by Orient Blackswan

A) Introduction to Literary Terms

Following Literary Terms are prescribed

1. Renaissance
2. Reformation
3. Restoration
4. Empathy & Sympathy
5. Enlightenment
6. Dialect
7. Jargon
8. Fable
9. Fairy Tale
10. Myth
11. Protagonist
12. Leitmotif
13. Hamartia
14. Muse
15. Dilemma
16. Peripeteia

B) Introduction to Literary Theories

Following Literary Theories are prescribed

1. Eco-Criticism
2. Queer Theory
3. Marxist Criticism

UNIT IV

Prescribed Textbook : Twelfth Night (Philip Weller Text) : William Shakespeare, Published by Orient Blackswan

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on Unit II, III & IV.

**BA Part III
English Literature
Semester VI**

SGB Amravati University, Amravati

TIME: 3 HOURS

MAX MARKS THEORY: 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS: 32 MARKS

MIN PASSING MARKS: 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

Unit I: A Background to the study of English Literature

i) The students shall have to answer TWO out of FOUR long answer questions
(Each carries EIGHT marks) = 16 Marks

UNIT II (16 Marks)

Unit II: Poetry

i) The students shall have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks

ii) The students shall have to attempt TWO out of FOUR passages for explanation with reference to the context
(Each carries FOUR marks) = 8 Marks

UNIT III (16 Marks)

Unit III:

A) Introduction to Literary Terms

The students shall have to answer TWO out of FOUR Literary Terms
(Each carries FOUR marks) = 8 Marks

B) Introduction to Literary Theory

The students shall have to answer ONE out of TWO Literary Theories = 8 Marks

UNIT IV (16 Marks)

Unit IV : Twelfth Night

The students shall have to answer TWO out of THREE long answer questions.
(Each carries EIGHT marks) = 16 Marks

UNIT V (16 Marks)

Unit V : Multiple Choice Questions (MCQ)

The students shall have to attempt SIXTEEN Multiple Choice Questions
(Each carries ONE mark) = 16 Marks

Internal Assessment

i) Viva- Voce = 10 Marks

ii) Assignments (Assignments based on prescribed syllabus) = 10 Marks

1.5 Marathi

Appendix-B

बी. ए. भाग - १ मराठी (आवश्यक)
सत्र १ ले

॥ गुण विभागणी ॥

एकूण गुण - १००
लेखी गुण - ८०
अंतर्गत मूल्यमापन - २०
वेळ - ३ तास

अभ्यासक्रमासाठी नेमलेले पाठ्यपुस्तक -- 'मृदगंध' भाग १ (विभाग 'अ', 'ब', आणि 'क' साठी)

विभाग - अ	वैचारिक	--	१६ गुण
विभाग - ब	ललित	--	१६ गुण
विभाग - क	कविता	--	१६ गुण
विभाग - ड	उपयोजित मराठी	--	१६ गुण
	वैचारिक, ललित व कविता या	--	१६ गुण
	विभागांवर वस्तुनिष्ठ बहुपर्यायी प्रश्न		

विभाग 'अ' व 'ब' यावर प्रत्येकी सोळा गुणांचा एक दीर्घोत्तरी प्रश्न	--	३२ गुण
विभाग 'क' यावर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	--	१६ गुण
विभाग 'ड' मधील उपयोजित मराठीवर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	--	१६ गुण
वस्तुनिष्ठ प्रश्न - उपरोक्त अभ्यासक्रमातील विभाग 'अ', 'ब' आणि 'क' यावर	--	१६ गुण
आधारित वस्तुनिष्ठ स्वरूपाचे एकूण १६ बहुपर्यायी प्रश्न		
विचारले जातील. प्रत्येक प्रश्नास एक गुण याप्रमाणे हा		
प्रश्न १६ गुणांचा असेल.		

विभाग 'ड' साठी संदर्भग्रंथ म्हणून 'उपयोजित मराठी' संपादक - केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे हा ग्रंथ असेल. या ग्रंथातील प्रकरण १५ वे 'लेखनविषयक नियम' व प्रकरण १६ वे 'मुद्रितशोधन' या प्रकरणांवर प्रत्येकी ०८ गुणांचा एक लघुत्तरी प्रश्न विचारण्यात येईल.

अंतर्गत मूल्यमापन : एकूण २० गुणांची अंतर्गत मूल्यमापन परीक्षा राहिल.

- गुण विभागणी :
- १) गृहपाठ -- १० गुण
- २) मौखिक परीक्षा -- १० गुण

लेखी परीक्षा व अंतर्गत मूल्यमापन या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असतील.

- लेखी परीक्षा -- ८० पैकी ३२ गुण आवश्यक
- अंतर्गत मूल्यमापन -- २० पैकी ०८ गुण आवश्यक

- सूचना : १) गृहपाठ हा पाठ्यपुस्तकांव्यतिरिक्त अन्य कोणत्याही भाषिक व वाङ्.मयीन कौशल्य विकसित करणाऱ्या विषयावर असावा.
- २) मौखिक परीक्षा ही गृहपाठावर आधारित असेल.

बी. ए. भाग - १ मराठी (आवश्यक)
सत्र २ रे

॥ गुण विभागणी ॥

एकूण गुण - १००
लेखी गुण - ८०
अंतर्गत मूल्यमापन - २०
वेळ - ३ तास

अभ्यासक्रमासाठी नेमलेले पाठ्यपुस्तक		--	'मृदगंध' भाग १ (विभाग 'अ', 'ब', आणि 'क' साठी)
विभाग - अ	वैचारिक	--	१६ गुण
विभाग - ब	ललित	--	१६ गुण
विभाग - क	कविता	--	१६ गुण
विभाग - ड	उपयोजित मराठी	--	१६ गुण
	वैचारिक, ललित व कविता या	--	१६ गुण
	विभागांवर वस्तुनिष्ठ बहुपर्यायी प्रश्न		

विभाग 'अ' व 'ब' यावर प्रत्येकी सोळा गुणांचा एक दीर्घोत्तरी प्रश्न	--	३२ गुण
विभाग 'क' यावर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	--	१६ गुण
विभाग 'ड' मधील उपयोजित मराठीवर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	--	१६ गुण
वस्तुनिष्ठ प्रश्न - उपरोक्त अभ्यासक्रमातील विभाग 'अ', 'ब' आणि 'क' यावर	--	१६ गुण
आधारित वस्तुनिष्ठ स्वरूपाचे एकूण १६ बहुपर्यायी प्रश्न		
विचारले जातील. प्रत्येक प्रश्नास एक गुण याप्रमाणे हा		
प्रश्न १६ गुणांचा असेल.		

विभाग 'ड' साठी संदर्भग्रंथ म्हणून 'उपयोजित मराठी' संपादक - केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे हा ग्रंथ असेल. या ग्रंथातील प्रकरण ३ रे 'कार्यालयीन पत्रव्यवहार' व प्रकरण ४ थे 'स्व-परिचयपत्र व नोकरीसाठी अर्जलेखन' या प्रकरणांवर प्रत्येकी ०८ गुणांचा एक लघुत्तरी प्रश्न विचारण्यात येईल.

अंतर्गत मूल्यमापन : एकूण २० गुणांची अंतर्गत मूल्यमापन परीक्षा राहिल.

- गुण विभागणी :
- १) गृहपाठ — १० गुण
- २) मौखिक परीक्षा — १० गुण

लेखी परीक्षा व अंतर्गत मूल्यमापन या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असतील.

- लेखी परीक्षा — ८० पैकी ३२ गुण आवश्यक
- अंतर्गत मूल्यमापन — २० पैकी ०८ गुण आवश्यक

सूचना : १) गृहपाठ हा पाठ्यपुस्तकांव्यतिरिक्त अन्य कोणत्याही भाषिक व वाङ्मयीन कौशल्य विकसित करणाऱ्या विषयावर असावा.

२) मौखिक परीक्षा ही गृहपाठावर आधारित असेल.

संपादित ग्रंथ - 'मृदगंध' भाग १

बी. ए. भाग १ - मराठी (आवश्यक)

सत्र - १

विभाग अ) वैचारिक

१)	जीवन आणि शिक्षण	विनोबा भावे
२)	ध्येयांची पराकाष्ठा	साने गुरुजी
३)	चालाल तर वाचाल	अभय बंग

विभाग ब) ललित

१)	आंगण	मधुकर केचे
२)	अन्वरशा फकीर	डॉ. मधुकर वाकोडे
३)	इर्जिक	अरुण जाखडे

विभाग क) कविता

१)	संतवाणी	अ) ज्ञानेश्वर ब) सावता माळी
२)	स्फूर्ति	केशवसत
३)	या झोपडीत माझ्या	राष्ट्रसंत तुकडोजी महाराज
४)	आत्ता	नामदेव ढसाळ
५)	शेतकरी राजा	शंकर बडे
६)	भंगार	अजीम नवाज राही

विभाग ड) व्यावहारिक मराठी

१)	लेखनविषयक नियम	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १५ वे	संपा. केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे
२)	मुद्रितशोधन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १६ वे	

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बी. ए. भाग १ मराठी (आवश्यक)

सत्र २

विभाग अ) वैचारिक

१)	तरुणांनो ! निर्भय बना, शूर बना	स्वामी विवेकानंद
२)	वैज्ञानिक दृष्टिकोन	नरेंद्र दाभोळकर
३)	स्त्री शुद्रांचा राजा छत्रपती शिवराय	चंद्रशेखर शिखरे

विभाग ब) ललित

१)	हत्तीचा दृष्टांत	केशिराज बास
२)	अल्पभूधारक	बाबाराव मुसळे
३)	वसंतवेणा	मीनल येवले

विभाग क) कविता

१)	संतवाणी	अ) नामदेव ब) जनाबाई
२)	तयास मानव म्हणावे का?	सावित्रीबाई फुले
३)	चाफा	बी
४)	गेले तुटून पंख	शिवा राऊत
५)	योद्धा	मलिका अमर शेख
६)	माय	स.ग.पाचपोळ

विभाग ड) व्यावहारिक मराठी

१)	कार्यालयीन पत्रव्यवहार	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण ३ रे	संपा. केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे
२)	स्व-परिचयपत्र व नोकरीसाठी अर्जलेखन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण ४ रे	

बी. ए. भाग - २ मराठी (आवश्यक)

सत्र ३ रे

॥ गुण विभागणी ॥

एकूण गुण - १००

लेखी गुण - ८०

अंतर्गत मूल्यमापन - २०

वेळ - ३ तास

अभ्यासक्रमासाठी नेमलेले पाठ्यपुस्तक

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'मृदगंध' भाग २ (विभाग 'अ', 'ब', आणि 'क' साठी)

विभाग - अ	वैचारिक	--	१६ गुण
विभाग - ब	ललित	--	१६ गुण
विभाग - क	कविता	--	१६ गुण
विभाग - ड	उपयोजित मराठी	--	१६ गुण
	वैचारिक, ललित व कविता या	--	१६ गुण
	विभागांवर वस्तुनिष्ठ बहुपर्यायी प्रश्न		
विभाग 'अ' व 'ब' यावर प्रत्येकी सोळा गुणांचा एक दीर्घोत्तरी प्रश्न		--	३२ गुण
विभाग 'क' यावर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न		--	१६ गुण
विभाग 'ड' मधील उपयोजित मराठीवर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न		--	१६ गुण
वस्तुनिष्ठ प्रश्न - उपरोक्त अभ्यासक्रमातील विभाग 'अ', 'ब' आणि 'क' यावर		--	१६ गुण
आधारित वस्तुनिष्ठ स्वरूपाचे एकूण १६ बहुपर्यायी प्रश्न			
विचारले जातील. प्रत्येक प्रश्नास एक गुण याप्रमाणे हा			
प्रश्न १६ गुणांचा असेल.			

विभाग 'ड' साठी संदर्भग्रंथ म्हणून 'उपयोजित मराठी' संपादक - केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे हा ग्रंथ असेल. या ग्रंथातील प्रकरण २२ वे 'वक्तृत्व कला' व प्रकरण २३ वे 'सूत्रसंचालन' या प्रकरणांवर प्रत्येकी ०८ गुणांचा एक लघुत्तरी प्रश्न विचारण्यात येईल.

अंतर्गत मूल्यमापन : एकूण २० गुणांची अंतर्गत मूल्यमापन परीक्षा राहिल.

● गुण विभागणी :

- १) गृहपाठ -- १० गुण
- २) मौखिक परीक्षा -- १० गुण

लेखी परीक्षा व अंतर्गत मूल्यमापन या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असतील.

- लेखी परीक्षा -- ८० पैकी ३२ गुण आवश्यक
- अंतर्गत मूल्यमापन -- २० पैकी ०८ गुण आवश्यक

- सूचना : १) गृहपाठ हा पाठ्यपुस्तकांव्यतिरिक्त अन्य कोणत्याही भाषिक व वाङ्.मयीन कौशल्य विकसित करणाऱ्या विषयावर असावा.
- २) मौखिक परीक्षा ही गृहपाठावर आधारित असेल.

बी. ए. भाग - २ मराठी (आवश्यक)
सत्र ४ थे

॥ गुण विभागणी ॥

एकूण गुण - १००
लेखी गुण - ८०
अंतर्गत मूल्यमापन - २०
वेळ - ३ तास

अभ्यासक्रमासाठी नेमलेले पाठ्यपुस्तक

-- 'मृदगंध' भाग २ (विभाग 'अ', 'ब', आणि 'क' साठी)

विभाग - अ	वैचारिक	--	१६ गुण
विभाग - ब	ललित	--	१६ गुण
विभाग - क	कविता	--	१६ गुण
विभाग - ड	उपयोजित मराठी	--	१६ गुण
	वैचारिक, ललित व कविता या	--	१६ गुण
	विभागांवर वस्तुनिष्ठ बहुपर्यायी प्रश्न		

विभाग 'अ' व 'ब'	यावर प्रत्येकी सोळा गुणांचा एक दीर्घोत्तरी प्रश्न	--	३२ गुण
विभाग 'क'	यावर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	--	१६ गुण
विभाग 'ड'	मधील उपयोजित मराठीवर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	--	१६ गुण
वस्तुनिष्ठ प्रश्न	- उपरोक्त अभ्यासक्रमातील विभाग 'अ', 'ब' आणि 'क' यावर आधारित वस्तुनिष्ठ स्वरूपाचे एकूण १६ बहुपर्यायी प्रश्न विचारले जातील. प्रत्येक प्रश्नास एक गुण याप्रमाणे हा प्रश्न १६ गुणांचा असेल.	--	१६ गुण

विभाग 'ड' साठी संदर्भग्रंथ म्हणून 'उपयोजित मराठी' संपादक - केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे हा ग्रंथ असेल. या ग्रंथातील प्रकरण ९ वे 'माहितीपत्रक' व प्रकरण १० वे 'निमंत्रणपत्रिका व कार्यक्रमपत्रिका' या प्रकरणांवर प्रत्येकी ०८ गुणांचा एक लघुत्तरी प्रश्न विचारण्यात येईल.

अंतर्गत मूल्यमापन : एकूण २० गुणांची अंतर्गत मूल्यमापन परीक्षा राहिल.

- गुण विभागणी :
- १) गृहपाठ -- १० गुण
- २) मौखिक परीक्षा -- १० गुण

लेखी परीक्षा व अंतर्गत मूल्यमापन या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असतील.

- लेखी परीक्षा -- ८० पैकी ३२ गुण आवश्यक
- अंतर्गत मूल्यमापन -- २० पैकी ०८ गुण आवश्यक

- सूचना : १) गृहपाठ हा पाठ्यपुस्तकांव्यतिरिक्त अन्य कोणत्याही भाषिक व वाङ्.मयीन कौशल्य विकसित करणाऱ्या विषयावर असावा.
- २) मौखिक परीक्षा ही गृहपाठावर आधारित असेल.

संपादित ग्रंथ - 'मृदगंध' भाग २

बी. ए. भाग २ मराठी (आवश्यक)
सत्र ३

विभाग अ) वैचारिक

१)	शुद्ध चारित्र्याचा प्रज्ञावंत राजकारणी	तर्कतीर्थ लक्ष्मणशास्त्री जोशी
२)	मीपण स्वत्वाच्या सीमेत दरवळतं, तोपर्यंतच ते सुगंधी असतं !	आ.ह.साळुंखे
३)	भाषाभिवृद्धीची सामाजिक दृष्टी	श्री.म.माटे

विभाग ब) ललित

१)	आज्ञापत्र	रामचंद्रपंत अमात्य
२)	माझे दत्तक वडील	चिं. वि. जोशी
३)	दिवस असे होते	दया पवार

विभाग क) कविता

१)	संतवाणी	अ) चोखामेळा ब) सोयराबाई
२)	अखेर कमाई	कुसुमाग्रज
३)	पाखरे	केशव मेश्राम
४)	जातं	श्रीकांत देशमुख
५)	सात बाराची नोंद	लक्ष्मण महाडिक
६)	शांतता	सिध्दार्थ भगत

विभाग ड) व्यावहारिक मराठी

१)	वक्तृत्व कला	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण २२ वे	संपा. केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे
२)	सूत्रसंचालन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण २३ वे	

बी. ए. भाग २ - मराठी (आवश्यक)

सत्र - ४

विभाग अ) वैचारिक

१)	स्त्री-पुरुष तुलना	ताराबाई शिंदे
२)	आरसा	डॉ. बाबासाहेब आंबेडकर
३)	विज्ञानयुगात भारत	जयंत नारळीकर

विभाग ब) ललित

१)	गाडगेबाबांच्या कीर्तनातले तत्त्वज्ञान	प्रबोधनकार के.सी. ठाकरे
२)	स्मशानातील सोनं	अण्णा भाऊ साठे
३)	स्त्रीवादी चळवळीने आम्हाला आमच्या अस्तित्वाची जाणीव दिली	विद्युत भागवत

विभाग क) कविता

१)	संतवाणी	अ) एकनाथ ब) कान्होपात्रा
२)	सारेच दीप कसे मंदावले आता	अनिल
३)	जिवलग	शांता शेळके
४)	जागजागी	भ.मा. परसावळे
५)	पेटवू नका देश	मिर्झा रफी अहमद बेग
६)	माती	राजेश महल्ले

विभाग ड) व्यावहारिक मराठी

१)	माहितीपत्रक	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण ९ वे	संपा. केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे
२)	निमंत्रणपत्रिका व कार्यक्रमपत्रिका	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १० वे	

Appendix-B

संत गाडगे बाबा अमरावती विद्यापीठ, अमरावती

बी. ए. भाग - ३ मराठी (आवश्यक)
सत्र ५ रे

॥ गुण विभागणी ॥

एकूण गुण ० १००
लेखी गुण ० ८०
अंतर्गत मूल्यमापन ० २०
वेळ - ३ तास

अभ्यासक्रमासाठी नेमलेले पाठ्यपुस्तक

	--	'मृदगंध' भाग ३ (विभाग 'अ', 'ब', आणि 'क' साठी)
विभाग - अ	वैचारिक	-- १६ गुण
विभाग - ब	ललित	-- १६ गुण
विभाग - क	कविता	-- १६ गुण
विभाग - ड	उपयोजित मराठी	-- १६ गुण
	वैचारिक, ललित व कविता या	-- १६ गुण
	विभागांवर वस्तुनिष्ठ बहुपर्यायी प्रश्न	

विभाग 'अ' व 'ब' यावर प्रत्येकी सोळा गुणांचा एक दीर्घोत्तरी प्रश्न	--	३२ गुण
विभाग 'क' यावर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	--	१६ गुण
विभाग 'ड' मधील उपयोजित मराठीवर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	--	१६ गुण
वस्तुनिष्ठ प्रश्न - उपरोक्त अभ्यासक्रमातील विभाग 'अ', 'ब' आणि 'क' यावर	--	१६ गुण
आधारित वस्तुनिष्ठ स्वरूपाचे एकूण १६ बहुपर्यायी प्रश्न		
विचारले जातील. प्रत्येक प्रश्नास एक गुण याप्रमाणे हा		
प्रश्न १६ गुणांचा असेल.		

विभाग 'ड' साठी संदर्भग्रंथ म्हणून 'उपयोजित मराठी' संपादक - केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे हा ग्रंथ असेल. या ग्रंथातील प्रकरण १२ वे 'अहवाल लेखन' व प्रकरण १७ वे 'प्रसारमाध्यमांसाठी लेखन-वृत्तलेखन' या प्रकरणांवर प्रत्येकी ०८ गुणांचा एक लघुत्तरी प्रश्न विचारण्यात येईल.

अंतर्गत मूल्यमापन : एकूण २० गुणांची अंतर्गत मूल्यमापन परीक्षा राहिल.

- गुण विभागणी :
- १) गृहपाठ ० १० गुण
- २) मौखिक परीक्षा -- १० गुण

लेखी परीक्षा व अंतर्गत मूल्यमापन या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असतील.

- लेखी परीक्षा ० ८० पैकी ३२ गुण आवश्यक
- अंतर्गत मूल्यमापन -- २० पैकी ०८ गुण आवश्यक

- सूचना : १) गृहपाठ हा पाठ्यपुस्तकांव्यतिरिक्त अन्य कोणत्याही भाषिक व वाङ्मयीन कौशल्य विकसित करणाऱ्या विषयावर असावा.
- २) मौखिक परीक्षा ही गृहपाठावर आधारित असेल.

संत गाडगे बाबा अमरावती विद्यापीठ, अमरावती

बी. ए. भाग - ३ मराठी (आवश्यक)
सत्र ६ वे

॥ गुण विभागणी ॥

एकूण गुण ० १००
लेखी गुण ० ८०
अंतर्गत मूल्यमापन ० २०
वेळ - ३ तास

अभ्यासक्रमासाठी नेमलेले पाठ्यपुस्तक

-- 'मृदगंध' भाग ३ (विभाग 'अ', 'ब', आणि 'क' साठी)

विभाग - अ	वैचारिक	--	१६ गुण
विभाग - ब	ललित	--	१६ गुण
विभाग - क	कविता	--	१६ गुण
विभाग - ड	उपयोजित मराठी	--	१६ गुण
	वैचारिक, ललित व कविता या	--	१६ गुण
	विभागांवर वस्तुनिष्ठ बहुपर्यायी प्रश्न		

विभाग 'अ' व 'ब' यावर प्रत्येकी सोळा गुणांचा एक दीर्घोत्तरी प्रश्न	--	३२ गुण
विभाग 'क' यावर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	--	१६ गुण
विभाग 'ड' मधील उपयोजित मराठीवर प्रत्येकी आठ गुणांचे दोन लघुत्तरी प्रश्न	--	१६ गुण

वस्तुनिष्ठ प्रश्न - उपरोक्त अभ्यासक्रमातील विभाग 'अ', 'ब' आणि 'क' यावर -- १६ गुण
आधारित वस्तुनिष्ठ स्वरूपाचे एकूण १६ बहुपर्यायी प्रश्न
विचारले जातील. प्रत्येक प्रश्नास एक गुण याप्रमाणे हा
प्रश्न १६ गुणांचा असेल.

विभाग 'ड' साठी संदर्भग्रंथ म्हणून 'उपयोजित मराठी' संपादक - केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे हा ग्रंथ असेल. या ग्रंथातील प्रकरण ६ वे 'जाहीर निवेदन' व प्रकरण ८ वे 'जाहिरात लेखन' या प्रकरणांवर प्रत्येकी ०८ गुणांचा एक लघुत्तरी प्रश्न विचारण्यात येईल.

अंतर्गत मूल्यमापन : एकूण २० गुणांची अंतर्गत मूल्यमापन परीक्षा राहिल.

- गुण विभागणी :
- १) गृहपाठ ० १० गुण
- २) मौखिक परीक्षा -- १० गुण

लेखी परीक्षा व अंतर्गत मूल्यमापन या दोन्ही परीक्षांमध्ये स्वतंत्रपणे उत्तीर्ण होणे आवश्यक राहिल. त्यासाठी किमान गुण खालीलप्रमाणे आवश्यक असतील.

- लेखी परीक्षा ० ८० पैकी ३२ गुण आवश्यक
- अंतर्गत मूल्यमापन -- २० पैकी ०८ गुण आवश्यक

सूचना : १) गृहपाठ हा पाठ्यपुस्तकांव्यतिरिक्त अन्य कोणत्याही भाषिक व वाङ्मयीन कौशल्य विकसित करणाऱ्या विषयावर असावा.
२) मौखिक परीक्षा ही गृहपाठावर आधारित असेल.

संपादित ग्रंथ - 'मृदगंध' भाग ३

बी. ए. भाग ३ मराठी (आवश्यक)
सत्र ५

विभाग अ) वैचारिक

१)	शेतकऱ्याचा असूड	म. फुले
२)	मंत्रबळ नव्हे यंत्रबळ	वि.दा.सावरकर
२)	बुध्दी : माणसाची खरी शक्ती	दादा धर्माधिकारी

विभाग ब) ललित

१)	लोकजीवनातील वृक्षपूजा	द.ता.भोसले
२)	पाणी	भास्कर चंदनशीव
३)	दहा पैशाचा तमाशा	मुकुंद टाकसाळे

विभाग क) कविता

१)	संतवाणी	अ) तुकाराम ब) रामदास
२)	औदुंबर	बालकवी
३)	गाव	ग्रेस
४)	जीवनाचा शोध घेताना	वाहरु सोनवणे
५)	खूणच पुसली मानवतेची	सुखदेव ढाणके
६)	दातासाठी हत्तीला मारण्याचे गणित	लोकनाथ यशवंत

विभाग ड) व्यावहारिक मराठी

१)	अहवाल लेखन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १२ वे	संपा. केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे
२)	प्रसारमाध्यमांसाठी लेखन - वृत्तलेखन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण १७ वे मधील 'बातमी लिहावी कशी' हा घटक	

बी. ए. भाग ३ मराठी (आवश्यक)

सत्र ६

विभाग अ) वैचारिक

१)	डॉ. पंजाबराव	वि. भि. कोलते
२)	राजर्षी शाहू : वसा आणि वारसा	गोविंद पानसरे
३)	स्वराज्य संकल्पिका राष्ट्रमाता जिजाऊ	अशोक राणा

विभाग ब) ललित

१)	मरणाहून आपेश वोखटे	भाऊसाहेबांची बखर
२)	अरणी	मारुती चितमपल्ली
३)	ढग	सखा कलाल

विभाग क) कविता

१)	संतवाणी	अ) शेख महंमद ब) फादर स्टिफन्स
२)	पोरसवदा होतीस	बा.सी. मर्ढेकर
३)	विझता विझता स्वतःला	नारायण सुर्वे
४)	बैलाचा मृत्यू	वसंत आबाजी डहाके
५)	काय कराल?	नारायण कुळकर्णी कवठेकर
६)	शेतकरी	बबन सराडकर

विभाग ड) व्यावहारिक मराठी

१)	जाहीर निवेदन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण ६ वे	संपा. केतकी मोडक व इतर, पद्मगंधा प्रकाशन, पुणे
२)	जाहिरात लेखन	संदर्भ ग्रंथ : 'उपयोजित मराठी' मधील प्रकरण ८ वे	

1.6 Political Science

Syllabi for B.A. Part-I
Semester-I
Subject : Political Science
(Implemented From 2017-2018 Session)
Indian Constitutional Provisions and Local Self Government

Marks : Theory – 80
In.Ass – 20

Unit-I

- i) Salient features of the Indian Constitution.
- ii) Preamble – Nature and Importance.
- iii) Fundamental Rights – Types and Importance.

Unit-II

- i) Directive Principles of State Policy – Nature and Importance
- ii) Fundamental Duties.
- iii) Methods to acquire Citizenship.

Unit-III

- i) President of India : Election Process, Powers and Function.
- ii) Vice President : Role and Function.
- iii) Prime Minister – Appointment, Role and Function.

Unit-IV

- i) Parliament : Lok Sabha and Rajya Sabha – Structure and Powers
- ii) Speaker of Lok Sabha - Powers & Function.

Unit-V

- i) Structure of Indian Judiciary. Types of Court, Characteristics of Indian Judiciary
- ii) Supreme Court of India – Structure, Powers and Function
- iii) High Court - Structure, Powers and Function.

Distribution of Internal Marks

- | | | |
|------------------------------------|-----|----------|
| i) Seminar | ... | 10 Marks |
| ii) News Papers Cutting Collection | ... | 10 Marks |

Reference Books :

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3. PyLee, M.V. : Indian Constitution
4. D.C. Gupta : Indian Government and Politics : Vikas Publication, Bombay.
5. प्रा.बी.टी. देशमुख : भारतीय संविधान
6. डॉ.प.ल. जोशी : भारतीय संविधान
7. प्रा.भ.श्रृंगारपुरे : भारतीय संविधान
8. प्रा.भ.ग.घांगरेकर : भारतीय राज्यघटना, स्वरूप आणि राजकारण
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11. प्रा.रा.ज. लोटे : भारतीय शासन आणि राजकारण, पिंपळापूरे अँड कं. पब्लीशर्स.
12. प्रा. बी.टी. देशमुख : भारतीय संविधान व स्वातंत्र्य आंदोलन.
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14. भारतीय शासन आणि राजकारण : प्रा.डॉ. अल्का देशमुख
15. भारतीय राजकारणांची संवैधानिक मिमांसा : ले. डॉ. वामन गवई.
16. भारतीय संविधान व शासन व्यवस्था : लेखक - डॉ. शांताराम चव्हाण
17. भारतीय संविधानात्मक तरतुदी आणि वास्तव : लेखक - डॉ. सुभाष गवई
18. भारतीय राज्यव्यवस्था : ले. डॉ. शांताराम चव्हाण व डॉ. सुभाष गवई, वेदमुद्रा प्रकाशन, अमरावती
19. महाराष्ट्रातील पंचायत राजची वाटचाल : ले. डॉ.सुभाष गवई, प्रशांत विघे व प्रा. सुनिल चकवे, वेदमुद्रा प्रकाशन, अमरावती.
20. भारतीय संविधानिक तरतुदी आणि : डॉ.शांताराम चव्हाण, वेदमुद्रा प्रकाशन, अमरावती स्थानिक स्वशासन

Semester-II (B.A.-I)

Indian Constitutional Provisions and Local Self Government

Theory : 80
Int.Ass.: 20

- Unit-I** i) Election Commission of India : Structure, Function and Powers.
ii) Electoral Reform, Recognition of Political Parties.
iii) Eligibility of Voter – Lok Sabha, Vidhan Sabha and Vidhan Parishad.

Unit-II State Executive

- i) Governor : Appointment, Powers and Role.
ii) Chief Minister : Appointment, Role and Function
iii) Council of Ministers : Formation, Role and Function

Unit-III State Legislature of Maharashtra :

- i) Legislative Assembly (Vidhan Sabha) – Structure, Powers and Function.
Speaker of Vidhan Sabha – Powers and Function
ii) Legislative Council (Vidhan Parishad) – Structure, Powers and Function

Unit-IV Local Self Government of Maharashtra :

- i) Types of Local Self Government (Urban and Rural)
ii) Municipal Corporation - Structure and Power
iii) Gram Panchayat – Structure and Function.
iv) Gram Sabha - Structure and Function.

Unit-V

- i) Women's Participations in Panchayati Raj of Maharashtra.
ii) Nagpur Pact for Sanyukta Maharashtra and its recommendations.
iii) Right to Information and its Importance

Distribution of Internal Marks

- i) Seminar ... 10 Marks
ii) News Papers Cutting Collection ... 10 Marks

Reference Books :

1. D.D. Basu : "An introduction to the Constitution of India : New Delhi Prentice Hall, 1994
2. Joshi, G.N. : The Constitution of India
3. PyLee, M.V. : Indian Constitution
4. D.C. Gupta : Indian Government and Politics : Vikas Publication, Bombay.
5. प्रा.बी.टी. देशमुख : भारतीय संविधान
6. डॉ.प.ल. जोशी : भारतीय संविधान
7. प्रा.भ.श्रृंगारपुरे : भारतीय संविधान
8. प्रा.भ.ग.घांगरेकर : भारतीय राज्यघटना, स्वरूप आणि राजकारण
9. डॉ.भा.ल. भोळे : भारतीय राज्यव्यवस्था.
10. प्रा.राम मुठाळ : भारतीय राजकीय व्यवस्था, अंशुल प्रकाशन, नागपूर.
11. प्रा.रा.ज. लोटे : भारतीय शासन आणि राजकारण, पिंपळापूरे अॅन्ड कं. पब्लीशर्स.
12. प्रा. बी.टी. देशमुख : भारतीय संविधान व स्वातंत्र्य आंदोलन.
13. भारताचे शासन आणि राजकारण : प्रा.शे.हाशम, डॉ. जोगेंद्र गवई.
14. भारतीय शासन आणि राजकारण : प्रा.डॉ. अल्का देशमुख
15. भारतीय राजकारणांची संवैधानिक मिमांसा : ले. डॉ. वामन गवई.
16. भारतीय संविधान व शासन व्यवस्था : ले. डॉ. शांताराम चव्हाण
17. भारतीय संविधानात्मक तरतुदी आणि वास्तव : ले. डॉ. सुभाष गवई
18. भारतीय राज्यव्यवस्था : ले. डॉ. शांताराम चव्हाण व डॉ. सुभाष गवई, वेदमुद्रा प्रकाशन, अमरावती
19. महाराष्ट्रातील पंचायत राजची वाटचाल : लेखक डॉ.सुभाष गवई, प्रशांत विघे व प्रा. सुनिल चकवे, वेदमुद्रा प्रकाशन, अमरावती.
20. भारतीय संविधानिक तरतुदी आणि स्थानिक स्वशासन : डॉ.शांताराम चव्हाण, वेदमुद्रा प्रकाशन, अमरावती

**Syllabi for B.A. Part-II
Semester-III
Subject : Political Science
(Implemented From 2018-2019 Session)**

Selected Constitutions and International Relations (U.K., U.S.A & China)

Marks : Theory – 80
In.Ass – 20

- Unit-I** i) Salient features of the Constitution of U.K.
ii) Historical Background of Crown.
iii) Powers of the Crown.
iv) Prime Minister – Appointment, Role and Function.
v) Cabinet – Structure and Function

Unit-II Parliamentary System of U.K.

- i) House of Lords – Composition, Powers and Functions (with Reference to Constitutional Reforms Act-2005)
ii) House of Commons – Composition, Powers and Functions
iii) Role of Opposition and Shadow Cabinet.

- Unit-III** i) Salient features of the Constitution of U.S.A.
ii) President – Election Process, Powers and Functions.
iii) Cabinet – Structure and Functions.
iv) Vice-President – Election Process, Powers and Functions.

Unit-IV Legislature of U.S.A. – Congress.

- i) Senate – Composition, Powers and Functions.
ii) House of Representative – Composition, Powers and Functions
iii) Supreme Court – Composition, Powers and Functions.

Unit-V South Asian Association for Regional Co-operation (SAARC)

- i) Objectives
ii) Structure
iii) Function.

Distribution of Internal Marks

- i) Group Discussion ... 10 Marks
ii) Project ... 10 Marks

Reference Books :

- | | |
|---|---|
| 1) Griffith | - The American government System. |
| 2) Norman Hill | - International Organization |
| 3) Khanna V.W. | - Comparative Study of Government and Politics. |
| 4) Show, Edgas | - Red China Today. |
| 5) कुळकर्णी गो.मा. | - निवडक संविधाने |
| 6) डॉ.शा.कृ.भोगले | - प्रमुख देशांची शासन पद्धती. |
| 7) शर्मा, ब्रिजमोहन | - प्रमुख देशांची शासन प्रणालीयों. |
| 8) पोतदार के.ए. | - चार निवडक राज्यघटना |
| 9) पाटील बी.बी. | - चार घटनांचा तौलनिक अभ्यास. |
| 10) प्र.ग.मुळे | - निवडक आधुनिक राजकीय व्यवस्था |
| 11) प्रा.तिजारे, प्रा.इंदापवार, प्रा.कानेटकर- | आधुनिक राजकीय व्यवस्था |
| 12) प्रा. रा.ज. लोटे | - आधुनिक राजकी. व्यवस्था. |
| 13) डॉ.टी.डी.मुदलीयार, डॉ.ए.एस.गाडे | - चीनची राजकीय व्यवस्था. |
| 14) डॉ.श्रीराम येरणकर | - तुलनात्मक शासन आणि राजकारण. |
| 15) प्रा. रा.ज. लोटे | - तुलनात्मक शासन व राजकारण. |

Semester-IV (B.A.-II)

Selected Constitutions and International Relations (U.K., U.S.A & China)

Marks : Theory – 80
In.Ass – 20

- Unit-I** i) Salient features of the Constitution of China (1982).
ii) National People Congress (NPC) – Composition, Powers and Functions.
iii) Standing Committee – Composition, Powers and Functions.

- Unit-II** i) President of China – Appointment, Role and Functions
ii) State Council of China – Composition, Powers and Functions
iii) Prime Minister of China - Appointment, Role and Functions.
iv) Role of Communist Party in China.

Unit-III United Nations Organization (UNO) :

- i) Charter
ii) Aims and Basic Principles.
iii) General Assembly of UNO – Composition and Functions.

- Unit-IV** i) Security - Council of UNO – Composition and Functions
ii) Secretary General – Appointment, Powers and Functions.
iii) International Court of Justice – Composition and Powers.

Unit-V Indo-China Relations – Major Issues :

- i) Tibet Dispute.
ii) Role of China about India in UNO.
iii) Impact of Chinese goods and market on Indian Economy.

Distribution of Internal Marks

- | | | |
|---------------------|-----|----------|
| i) Group Discussion | ... | 10 Marks |
| ii) Project | ... | 10 Marks |

Reference Books :

- | | |
|---|---|
| 1) Griffith | - The American government System. |
| 2) Norman Hill | - International Organization |
| 3) Khanna V.W. | - Comparative Study of Government and Politics. |
| 4) Show, Edgas | - Red China Today. |
| 5) कुळकर्णी गो.मा. | - निवडक संविधाने |
| 6) डॉ.शा.कृ.भोगले | - प्रमुख देशांची शासन पद्धती. |
| 7) शर्मा, ब्रिजमोहन | - प्रमुख देशांची शासन प्रणालीयाँ. |
| 8) पोतदार के.ए. | - चार निवडक राज्यघटना |
| 9) पाटील बी.बी. | - चार घटनांचा तौलनिक अभ्यास. |
| 10) प्र.ग.मुळे | - निवडक आधुनिक राजकीय व्यवस्था |
| 11) प्रा.तिजारे, प्रा.इंदापवार, प्रा.कानेटकर- | आधुनिक राजकीय व्यवस्था |
| 12) प्रा. रा.ज. लोटे | - आधुनिक राजकी. व्यवस्था. |
| 13) डॉ.टी.डी.मुदलीयार, डॉ.ए.एस.गाडे- | चीनची राजकीय व्यवस्था. |
| 14) डॉ.श्रीराम येरणकर | - तुलनात्मक शासन आणि राजकारण. |
| 15) प्रा. रा.ज. लोटे | - तुलनात्मक शासन व राजकारण. |

Appendix-H

**Syllabi for B.A. Final
Semester-V
Modern Concepts and Policy in Politics
(Implemented From 2019-2020 Session)**

Marks : Theory – 80
In.Ass - 20

Unit-I Leadership :

- a) Meaning of Leadership.
- b) Factors of Leadership.
- c) Role of Leadership

Unit-II Reservation :

- a) Meaning and Nature of Indian Reservation Policy.
- b) Reservation in Indian Parliament.
- c) Reservation and Politics in India.

Unit-III Nationalism :

- a) Meaning and Nature of Nationalism.
- b) Factors of Nationalism
- c) Present Status of Indian Nationalism.

Unit-IV Communalism :

- a) Meaning of Communalism.
- b) Role of Communalism in Indian Politics.
- c) Present Status of Communalism in India.

Unit-V Terrorism :

- a) Meaning and Definition of Terrorism.
- b) Kinds of Terrorism
- c) The Acts for Prevention of Terrorism in India.

Internal Assessment of Marks (20 Marks)

1) Group Discussion Related to Syllabus	...	10 Marks
2) Paper Presentation OR P.P.T Presentation	1	10 Marks

Related to Syllabus

Books Recommended :

- 1) पवार, प्रकाश - भारतीय राजकारण आणि नेतृत्वाची वाटचाल, डायमंड पब्लिकेशन, नारायणपेठ, पुणे, जानेवारी-२०१४
- २) देशमुख, सुधाकर - राष्ट्र आणि राष्ट्रवाद (संकल्पना आणि विकास), पद्मगंधा प्रकाशन, एरंडवन पुणे, मार्च - २००९.
- ३) डॉ.पळशीकर, सुहास - समकालीन भारतीय राजकारण (काँग्रेस वर्चस्व ते हिंदू जमातवाद)
- ४) मोदि, महावीरप्रसाद व डॉ. सरोज मोदि - भारतीय राजनीती की प्रकृतियों (Trends of Indian Politics) कॉलेज बुक डेपो प्रकाशन, जयपूर, १९९९.
- ५) डॉ.जैन, पुखराज व डॉ. पडीयार, बी.एल. - भारतीय शासन एवं राजनीती, साहित्य भवन प्रकाशन, २०१२.
- ६) त्रिपाठी, विपीनकुमार - जनमुखी राष्ट्रवाद, पद्भाव मिशन प्रकाशन, नई दिल्ली, जूलाई-२००२.
- ७) डॉ.शर्मा, हरिओम - ग्रामिण नेतृत्व के उभरते परिमान, अर्जून पब्लिशिंग हाऊस, दरियागंज, नई, दिल्ली, प्रथम संस्करण - २००४.
- 8) डॉ. भोळे, भास्कर लक्ष्मण- भारतीय गणराज्याचे शासन आणि राजकारण, पिंपळापूरे अँड कं. पब्लिशर्स, नागपूर ,२००३.
- ९) आंबेडकर, बाबासाहेब - पाकिस्तान अर्थात भारताची फाळणी, रघुवंशी प्रकाशन, पुणे.
- १०) चव्हाण, प्रविण व दिवाकर, वैशाली - भारतीय राष्ट्रवाद : सिध्दांत आणि व्यवहार, प्रविण चव्हाण प्रकाशन, पुणे २०००.
- ११) काणे, पा.वा. - धर्मशास्त्राचा इतिहास, सारांश ग्रंथ, महाराष्ट्र साहित्य मंडळ, मुंबई.
- १२) डॉ.सुभाष गवई, डॉ. आर.एन. फुलारी, प्रा.विनय कोडापे - दहशतवादाचे विविध आयाम, वेदमुद्रा प्रकाशन, अमरावती.
- १३) डॉ. के.एच.वासनिक (संपादक) - आंतकवाद के विविध आयाम, गायत्री प्रकाशन, रिवा (मध्यप्रदेश), २६ जानेवारी, २०११.

- 14) Dr. Hegde, M.D. - Backward Class Movements in india, Jawahar Publishers, New Delhi
First Edition- 2013.
- 15) Dr. Sharma, Harish - Future Tense in Naxal Fight, Aarti Prakashan, New Delhi, 2011.
- 16) Dr. Suryavanshi, P.H. - Recent Trends in Indian Politics, Gaurav Publication, Kanpur-2016.
- 17) Asirvadam, E. - Political Theory, The Uper India Pub. House, Lucknow, 1961.
- 18) Johari, J.C. - Principles of Modern Political Science, Sterling Pub., New Delhi-1989.
- 19) Dr. Shriram Yerankar - Secularism in India, Theory and Practice, Adhyayan Pub., Delhi. 2006.

**Syllabi for B.A. Final
Semester-VI
Concepts of Western and Indian Thinkers**

Marks : Theory ó 80
In.Ass - 20

Unit-I Concept of State :

- a) Aristotle - Classification of State.
b) M.K. Gandhi ó Concept of Ramrajya.

Unit-II Concept of Democracy :

- a) Walter Bagehot ó Concept of Democracy
b) Abraham Lincoln ó Concept of Democracy
c) Dr. B.R. Ambedkar ó Parliamentary Democracy.

Unit-III Concept of Nationalism :

- a) Niccolo Machiavelli ó Concept of Nationalism
b) Swami Vivekananda ó Concept of Nationalism
c) V.D. Sawarkar ó Concept of Nationalism

Unit-IV Socialism :

- a) Karl Marx - Concept of Socialism
b) Pt. Jawaharlal Nehru ó Concept of Socialism
c) Ram Manohar Lohiya ó Concept of Socialism

Unit-V Behaviouralism and Sovereignty :

- a) David Eston - Concept of Behaviouralism
b) Gabriel Almond - Concepts of Post Behaviouralism
c) John Austin - Concept of Sovereignty.

Internal Assessment of Marks (20 Marks)

- | | | |
|---|-----|----------|
| 1) Bibliography Related to Syllabus | ... | 10 Marks |
| 2) Home Assignment (Any One)
Related to Syllabus | í | 10 Marks |

Books Recommended :

- 1) Francis W. Coker - Recent Political Thought, The World Press Pvt. Ltd.
2) George H. Sabine - A History of Political theory, George G. Harrap & Company Ltd.
London.
3) C.L. Wayper - Political Thought, S.T. Pausl, Honce Warwick Lane London, Ec,4.
4) V.D.Mahajan & R.R.Seth - Recent Political Thought, Premier Publishing Co. Delhi.
5) Radhey Sham Chourasia - History of Western Political Thought ó Volume I & II
6) Suda, J.P. - History of Political Thought.
7) श्रृंगारपुरे, प्रा. अरविंद - पाश्चिमात्य राजकीय विचारवंत, श्री मंगेश प्रकाशन, नागपूर

- ८) भोळे, डॉ.भास्कर लक्ष्मण - भारतीय आणि पाश्चिमात्य राजकीय विचार, पिंपळापूरे अॅन्ड के.पब्लिशर्स, नागपूर.
- ९) पाटील, वा.भा. - पाश्चिमात्य राजकीय विचारक, श्री मंगेश प्रकाशन, नागपूर
- १०) काणे, प्रा. प.सी., - काही प्रमुख राज्यशास्त्रज्ञ, विद्या प्रकाशन, नागपूर.
- ११) पाटील, वा.भा. - आधुनिक भारतीय राजकीय विचारवंत, प्रशांत पब्लिकेशन्स, जळगांव.
- १२) भोळे, डॉ.भास्कर लक्ष्मण - भारतीय आणि पाश्चिमात्य राजकीय विचार, पिंपळापूरे अॅन्ड के.पब्लिशर्स, नागपूर.
- १४) प्रा.घांगरेकर, सी.जी. - पाश्चात्य आणि भारतीय विचारवंत
- १५) डॉ. एस.एस सिंह - भारतीय राजकीय चिंतन का इतिहास
- १६) ओमप्रकाश गाबा - पाश्चात्य आणि भारतीय राजनीतिक चिंतन का इतिहास.
- 17) Prof. Danning - History of Political Thought.
- 18) Raghukul Tilak - Indian Political Thought
- १९) रघुनंदनलाल व-हाडपूरकर - पाश्चात्य आणि भारतीय विचारवंत
- २०) डॉ.जैन, पुखराज व डॉ. पडीयार, बी.एल. - पाश्चात्य राजनीतिक चिंतनका इतिहास
- २१) कृ.दि. बोराडकर - पाश्चिमात्य व भारतीय राजकीय विचारवंत.
- २२) येरणकर, श्रीराम आणि डॉ.देवगांवकर, एस.जी. - राजकीय सिध्दांत आणि राजकीय विचार, श्री साईनाथ प्रकाशन, नागपूर.
- 23) Verma, S.P. - Modern Political Theory, Vikas Pub., House, New Delhi – 1975.

2. SYLLABUS on HUMAN VALUES

2.1 Language

Appendix-A

**SYLLABUS
PRESCRIBED FOR
B. A. - Part I EXAMINATION
Semester I
Compulsory English**

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSTMENT : 20 MARKS

Prescribed Textbook : *Blooming Buds* by Board of Editors & published by Orient Blackswan.

UNIT I

PROSE -

1. Education Provides a Solid Foundation - A.P.J Abdul Kalam
2. Love Story - Maneka Gandhi
3. Speech on Indian Independence - Jawaharlal Nehru
4. Film Making - Satyajit Ray

UNIT II

POETRY -

5. In the Bazaar of Hyderabad - Sarojini Naidu
6. She Walks in Beauty - Lord Byron
7. Middle Age - Kamala Das

UNIT III

GRAMMAR -

8. Parts of Speech
9. Tenses

UNIT IV

COMMUNICATION SKILLS -

10. Unseen Passage
11. Letter Writing (Personal & Business Letters)
12. Curriculum Vitae (CV)

UNIT V

MULTIPLE CHOICE QUESTIONS -

Based on the prescribed text Unit I & II only.

INTERNAL ASSESSMENT

i) Viva- Voce

- a) Personal Interview
- b) Seminar

ii) Assignments

- a) Making Introduction
- b) Greeting People
- c) Talking about Family
- d) Describing People, Places & Animals
- e) Expressing Feelings
- f) Inviting, Suggesting, Accepting & Refusing

Recommended Books:

1. Spoken English : A Foundation Course Part 1 (With Audio CD) by Kamlesh Sadanand & Susheela Punitha (Revised Edition) Published by Orient Blackswan.
2. Spoken English : A Foundation Course Part 2 (With Audio CD) by Kamlesh Sadanand & Susheela Punitha (Revised Edition) Published by Orient Blackswan.

Compulsory English

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 32 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

- A) **Prose**
- i) The students will have to answer THREE out of FOUR short answer questions of 2 marks each. = 6 Marks
 - ii) The students will have to answer TWO out of FOUR long answer questions of 5 marks each. = 10 Marks
- B) **Poetry**
- i) The students will have to answer TWO out of THREE short answer questions of 3 marks each. = 6 Marks
 - ii) The students will have to answer TWO out of THREE long answer questions of 5 marks each. = 10 Marks

C) **Grammar** : Prescribed Text Blooming Buds by Board of Editors & published by Orient Blackswan

i) Parts of Speech = 10 Marks

ii) Tenses = 6 Marks

D) Communication Skills :

i) Unseen passage = 6 Marks

ii) Letter Writing : The students will have to answer ONE out of TWO Letters = 5 Marks

iii) Curriculum Vitae (CV) : The students will have to answer ONE out of TWO CV = 5 Marks

E) Multiple Choice Questions (MCQ)

Based on Unit I & II : The students will have to answer SIXTEEN out of SIXTEEN MCQ's = 16 Marks

F) Internal Assessment

i) Viva- Voce = 10 Marks

a) Personal Interview = 5 Marks

b) Seminar = 5 Marks

ii) Assignments = 10 Marks

a) Making Introduction

b) Greeting People

c) Talking about Family

d) Describing People, Places & Animals

e) Expressing Feelings

f) Inviting, Suggesting, Accepting & Refusing

Note :

1. The teachers are expected to impart formal training in Grammar Composition, Making Introduction, Greeting People, Talking about Family, Describing People, Places & Animals, Expressing Feelings, Inviting, Suggesting, Accepting & Refusing, Reading & Oral Skills in the tutorial classes.
2. Internal examiner shall interview an examiner to test his or her spoken skills.
3. There shall be separate passing for theory & Internal Assessment Examination.

**SYLLABUS
PRESCRIBED FOR
B. A. – Part I EXAMINATION
Semester II
Compulsory English**

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESTMENT : 20 MARKS

Prescribed Textbook : Blooming Buds by Board of Editors & published by Orient Blackswan.

UNIT I

PROSE –

1. Appro JRD - Sudha Murthy

2. Packing - Jerome K. Jerome

3. How I became a Public Speaker – G. B. Shaw

4. Values in Life - Rudyard Kipling

UNIT II

POETRY –

5. Money Madness - D.H Lawrence

6. No men are foreign - James Kirkup

7. Another's sorrow - William Blake

UNIT III

GRAMMAR –

8. Subject, Verb, Agreement

9. Verbs : Forms of to be, do, have and model auxiliaries

UNIT IV

COMMUNICATION SKILLS –

10 . Story building

11 . E-Communication : E-Mail, Fax

12 . Notices / Agenda / Minutes

UNIT V

MULTIPLE CHOICE QUESTIONS –

Based on the prescribed text Unit I & II only.

F) Internal Assessment

i) Viva- Voce

- a) Reading Skills (Reading aloud – Individual of a passage of about 100 words from the prescribed text)
- b) Group Discussion

ii) Assignments

- a) Asking for & Giving Information
- b) Giving Directions
- c) Making Request
- d) Making Offers
- e) Getting & Giving Permissions
- f) Talking about Past Events

Recommended Books:

1. Spoken English : A Foundation Course Part 1 (With Audio CD) by Kamlesh Sadanand & Susheela Punitha (Revised Edition) Published by Orient Blackswan.
2. Spoken English : A Foundation Course Part 2 (With Audio CD) by Kamlesh Sadanand & Susheela Punitha (Revised Edition) Published by Orient Blackswan.

Compulsory English

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 32 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

- A) Prose** i) The students will have to answer THREE out of FOUR short answer questions of 2 marks each. = 6 Marks
ii) The students will have to answer TWO out of FOUR long answer questions of 5 marks each. = 10 Mark
- B) Poetry** i) The students will have to answer TWO out of THREE short answer questions of 3 marks each. = 6 Marks
ii) The students will have to answer TWO out of THREE long answer questions of 5 marks each. = 10 Marks
- C) Grammar** : Prescribed Text Blooming Buds by Board of Editors & published by Orient Blackswan
- i) Subject, Verb, Agreement** = 10 Marks
- ii) Verbs : Forms of to be, do, have and model auxiliaries** = 6 Marks
- D) Communication Skills :**
- i) Story Building = 6 Marks
- ii) . E-Communication : E-Mail, Fax : The students will have to answer ONE out of TWO = 5 Marks
- iii) Notices / Agenda / Minutes : The students will have to answer ONE out of TWO = 5 Marks

E) Multiple Choice Questions (MCQ)

Based on Unit I & II : The students will have to answer SIXTEEN out of SIXTEEN MCQ's = 16 Marks

F) Internal Assessment

i) Viva- Voce

= 10 Marks

- a) Reading Skills (Reading aloud – Individual of a passage of about 100 words from the prescribed text) = 5 Marks
 - b) Group Discussion = 5 Marks
- ii) Assignments = 10 Marks**
- a) Asking for & Giving Information
 - b) Giving Directions
 - c) Making Request
 - d) Making Offers
 - e) Getting & Giving Permissions
 - f) Talking about Past Events

Note :

1. The teachers are expected to impart formal training in Grammar Composition, Asking for & Giving Information Giving Directions, Making Request, Making Offers, Getting & Giving Permissions, Talking about Past Events, Reading & Oral Skills in the tutorial classes.

**SYLLABUS
PRESCRIBED FOR
B.A – PART II EXAMINATION
SEMESTER III
COMPULSORY ENGLISH**

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSTMENT : 20 MARKS

Prescribed Textbook : Blossoming Flowers by Board of Editors, Published by Orient Blackswan.

UNIT I

PROSE –

1. India's Message to the World – Swami Vivekanand
2. The Pleasure of Ignorance – Robert Lynd
3. The Happy Prince – Oscar Wilde
4. The Three Questions – Leo Tolstoy

UNIT II

POETRY –

5. Sonnet 116 – William Shakespeare
6. Dirge – James Shirley
7. Leisure – W H Davies
8. A Baby Asleep After Pain – D.H Lawrence

UNIT III

GRAMMAR :

9. Clauses :
 - ✓ Main Clause
 - ✓ Subordinate Clause (Noun Clause , Adverb Clause , Adjective Clause)
10. Types of Sentences :
 - ✓ Assertive/ Affirmative Sentences
 - ✓ Exclamatory Sentences
 - ✓ Negative Sentences
 - ✓ Interrogative Sentences
 - ✓ Simple Sentences
 - ✓ Compound Sentences
 - ✓ Complex Sentences
 - ✓ Compound Complex Sentences

UNIT IV

COMMUNICATION SKILLS :

11. Telephone Conversation
 - ✓ Answering the Telephone and Asking for Someone
 - ✓ Taking and Leaving Messages
 - ✓ Making Enquiries on the Phone
12. Interpersonal Conversation
 - ✓ Getting People's Attention and Interrupting
 - ✓ Making Requests and Responding to Them
 - ✓ Asking for Directions and Giving Directions

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on prescribed text Unit I & II only

Internal Assessment :

Viva- Voce

A) Personal Interview

B) Seminar - Presentation (Based on prescribed text : Prose & Poetry)

BA Part II
Compulsory English
Semester III
SGB Amravati University, Amravati

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MIN PASSING MARKS : 32 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

A) **Prose** i) The students will have to answer TWO out of THREE short answer questions of 3 marks each. = 6 Marks

ii) The students will have to answer TWO out of THREE long answer questions of 5 marks each = 10 Marks

UNIT II (16 Marks)

B) **Poetry** i) The students will have to answer TWO out of THREE short answer questions of 3 marks each. = 6 Marks

ii) The students will have to answer TWO out of THREE long answer questions of 5 marks each. = 10 Marks

UNIT III (16 Marks)

C) **Grammar** : Prescribed Text Blossoming Flowers by Board of Editors & published by Orient Blackswan

i) Clauses = 06 Marks

ii) Types of Sentences = 10 Marks

UNIT IV (16 Marks)

D) **Communication Skills** :

i) Telephonic Conversation = 8 Marks

ii) Interpersonal Conversation = 08 Marks

UNIT V (16 Marks)

E) **Multiple Choice Questions (MCQ)**

Based on Unit I & II : The students will have to answer SIXTEEN out of SIXTEEN MCQ's = 16 Marks

F) **Internal Assessment**

i) **Viva- Voce = 20 Marks**

a) Personal Interview = 10Marks

b) Seminar - Presentation = 10 Marks

Note:

1. The teachers are expected to impart formal training in Grammar Composition, Making Introduction, Greeting People, Talking about Family, Describing People, Places & Animals, Expressing Feelings, Inviting, Suggesting, Accepting & Refusing, Reading & Oral Skills in the tutorial classes.

2. Internal examiner shall interview an examinee to test his or her spoken skills.

3. There shall be separate passing for theory & Internal Assessment.

SYLLABUS
PRESCRIBED FOR
B.A - PART II EXAMINATION
SEMESTER IV
COMPULSORY ENGLISH

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSTMENT : 20 MARKS

Prescribed Textbook : Blossoming Flowers by Board of Editors, Published by Orient Blackswan.

UNIT I

PROSE -

1. [Why Are Beggars Despised](#) - George Orwell
2. On the Conduct of Life (extract) - William Hazlitt
3. The Girl - O Henry
4. The Magic Shop - H. G Wells

UNIT II

POETRY -

5. Where the mind is without fear - Rabindranath Tagore
6. A Lament - P.B Shelley
7. Love in Life - Robert Browning
8. Up - Hill : Christina Rossetti

UNIT III

GRAMMAR :

9. Transformation of Sentences :

- ✓ Interchange of Affirmative & Negative Sentences
- ✓ Interchange of Assertive & Interrogative Sentences
- ✓ Interchange of Assertive & Exclamatory Sentences
- ✓ Conversion of Simple to Compound Sentences
- ✓ Conversion of Simple to Complex Sentences
- ✓ Conversion of Complex to Simple Sentences
- ✓ Conversion of Compound to Complex Sentences
- ✓ Conversion of Complex to Compound Sentences

10. Synthesis of Sentences :

Combination of two or more simple sentences into a single simple sentence / Compound Sentence / Complex Sentence.

UNIT IV

COMMUNICATION SKILLS :

11. Interpersonal Conversation

- ✓ Congratulating and Responding to Congratulations
- ✓ Paying Compliments, Showing Appreciation, Offering Encouragement and Responding
- ✓ Asking for , Giving and Refusing Permission

12. Casual Conversation

- ✓ Talking about the Weather
- ✓ Describing Daily Routines
- ✓ Talking about Current Activities

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on prescribed text Unit I & II only

Internal Assessment :

Viva- Voce

A) Personal Interview

B) Seminar - Presentation (Based on prescribed text : Prose & Poetry

BA Part II
Compulsory English
Semester IV

SGB Amravati University, Amravati

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MIN PASSING MARKS : 32 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

- A) **Prose** i) The students will have to answer TWO out of THREE short answer questions of 3 marks each. = 6 Marks
ii) The students will have to answer TWO out of THREE long answer questions of 5 marks each = 10 Marks

UNIT II (16 Marks)

- B) **Poetry** i) The students will have to answer TWO out of THREE short answer questions of 3 marks each. = 6 Marks
ii) The students will have to answer TWO out of THREE long answer questions of 5 marks each. = 10 Marks

UNIT III (16 Marks)

C) **Grammar** : Prescribed Text Blossoming Flowers by Board of Editors & published by Orient Blackswan

- i) Transformation of Sentences= 8 Marks
ii) Synthesis of Sentences = 8 Marks

UNIT IV (16 Marks)

D) Communication Skills :

- i) Interpersonal Conversation = 8 Marks
- ii) Casual Conversation = 08 Marks

UNIT V (16 Marks)

E) Multiple Choice Questions (MCQ)

Based on Unit I & II : The students will have to answer SIXTEEN out of SIXTEEN MCQ's = 16 Marks

F) Internal Assessment

i) Viva- Voce = 20 Marks

- a) Personal Interview = 10Marks
- b) Seminar - Presentation = 10 Marks

Note:

1. The teachers are expected to impart formal training in Grammar Composition, Making Introduction, Greeting People, Talking about Family, Describing People, Places & Animals, Expressing Feelings, Inviting, Suggesting, Accepting & Refusing, Reading & Oral Skills in the tutorial classes.
2. Internal examiner shall interview an examinee to test his or her spoken skills.
3. There shall be separate passing for theory & Internal Assessment.

**SYLLABUS
PRESCRIBED FOR
B.A - PART III EXAMINATION
SEMESTER V
COMPULSORY ENGLISH**

TIME : 3 HOURS

**MAXIMUM MARKS THEORY : 80 MARKS
MAXIMUM MARKS INTERNAL ASSESSTMENT: 20 MARKS**

Prescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan.

UNIT I

SHORT STORIES

1. The Open Window - Saki
2. The Three Hermits ó Leo Tolstoy

UNIT II

ESSAYS

1. What is Swaraj? - M K Gandhi
2. A Letter to his Son ó Lord Chesterton

UNIT III

POETRY -

1. Bangle Sellers -Sarojini Naidu
2. The Mountain and the Squirrel ó Ralph Waldo Emerson

UNIT IV

WRITING SKILLS

1. Précis Writing
2. Developing a Thought

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on prescribed text Unit I, II & III

Internal Assessment :

Viva-Voce

A) Personal Interview

B) Seminar - Presentation (Based on prescribed Text : Short Stories, Essays & Poetry)

**BA Part III
Compulsory English
Semester V
SGB Amravati University, Amravati**

TIME : 3 HOURS

**MAX MARKS THEORY : 80 MARKS
MAX MARKS INTERNAL ASSESSMENT: 20 MARKS**

**MIN PASSING MARKS : 32 MARKS
MIN PASSING MARKS : 08 MARKS**

Distribution of Marks

UNIT I (16 Marks)

A) SHORT STORIES

- i) The students shall have to answer TWO out of THREE questions in Two or Three sentences of 3 marks each. = 6 Marks
- ii) The students shall have to answer TWO out of THREE questions in about 100 words of 5 marks each = 10 Marks

UNIT II (16 Marks)

B) ESSAYS

- i) The students shall have to answer TWO out of THREE questions in Two or Three sentences of 3 marks each. = 6 Marks
- ii) The students shall have to answer TWO out of THREE questions in about 100 words of 5 marks each = 10 Marks

UNIT III (16 Marks)

C) **POETRY:** Prescribed Text Sands of Time by Board of Editors & published by Orient Blackswan

i) The students shall have to answer TWO out of THREE questions in Two or Three sentences of 3 marks each. = 6 Marks

ii) The students shall have to answer TWO out of THREE questions in about 100 words of 5 marks each = 10 Marks

UNIT IV (16 Marks)

WRITING SKILLS

1. Précis Writing : i) The students shall have to write a précis of the given paragraph with suitable title for 08 marks

2. Developing a Thought: i) The students shall have to develop a thought, choosing one of the two in about 250 words for 08 marks

UNIT V (16 Marks)

E) Multiple Choice Questions (MCQ)

Based on Unit I, II & III: The students shall have to attempt multiple choice questions= 16 Marks

F) Internal Assessment

i) Viva- Voce = 20 Marks

a) Personal Interview = 10Marks

b) Seminar - Presentation = 10 Marks

**SYLLABUS
PRESCRIBED FOR
BA – PART III EXAMINATION
SEMESTER VI
COMPULSORY ENGLISH**

TIME : 3 HOURS

MAXIMUM MARKS THEORY : 80 MARKS

MAXIMU MARKS INTERNAL ASSESSTMENT: 20 MARKS

Prescribed Textbook: Sands of Time by Board of Editors, Published by Orient Blackswan.

UNIT I

SHORT STORIES:

1. Quality ó John Galsworthy
2. Miss Brill ó Catherine Mansfield

UNIT II

ESSAYS:

1. My Financial Career -Stephen Leacock
2. Socrates and the Schoolmaster ó FL Brayne

UNIT III

POETRY:

1. The Solitary Reaper- William Wordsworth
2. Stay Calm -Grenville Kleiser

UNIT IV

WRITING SKILLS:

1. Report Writing : i) The students shall have to write a Report on the given topic in about 250 words for 08 marks
2. Essay : i) The students shall have to write an essay, choosing from the four given topics in about 250 words for 08 marks

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on Prescribed Text : Unit I, II & III

Internal Assessment :

Viva- Voce

A) Personal Interview

B) Seminar - Presentation (Based on Prescribed Text : Short Stories, Essay & Poetry)

BA Part III
Compulsory English
Semester VI
SGB Amravati University, Amravati

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS
MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 32 MARKS
MIN PASSING MARKS : 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

A) SHORT STORIES

- i) The students shall have to answer TWO out of THREE questions in Two or Three sentences of 3 marks each. = 6 Marks
- ii) The students shall have to answer TWO out of THREE questions in about 100 words of 5 marks each = 10 Marks

UNIT II (16 Marks)

B) ESSAYS

- i) The students shall have to answer TWO out of THREE questions in Two or Three sentences of 3 marks each. = 6 Marks
- ii) The students shall have to answer TWO out of THREE questions in about 100 words of 5 marks each = 10 Marks

UNIT III (16 Marks)

C) POETRY: Prescribed Text Sands of Time by Board of Editors & published by Orient Blackswan

- i) The students shall have to answer TWO out of THREE questions in Two or Three sentences of 3 marks each. = 6 Marks
- ii) The students shall have to answer TWO out of THREE questions in about 100 words of 5 marks each = 10 Marks

UNIT IV (16 Marks)

WRITING SKILLS

1. Report Writing : i) The students shall have to write a Report on the given topic in about 250 words for 08 marks
2. Essay : i) The students shall have to write an essay, choosing from the four given topics in about 250 words for 08 marks

UNIT V (16 Marks)

E) Multiple Choice Questions (MCQ)

Based on Unit I, II & III: The students shall have to attempt multiple choice questions= 16 Marks

F) Internal Assessment

i) Viva- Voce = 20 Marks

- a) Personal Interview = 10Marks
- b) Seminar - Presentation = 10 Marks

SYLLABUS
PRESCRIBED FOR
B.A PART III EXAMINATION
SEMESTER V
ENGLISH LITERATURE
UNIT I

Text Prescribed : A Background to the study of English Literature by B.Prasad. (Section II DRAMA)

Chapters Prescribed :

Chapter II - 1)Tragedy and Comedy

Chapter III - 1) Dramatic Irony

Chapter VI – 2) Shakespearean Tragedy 3) Shakespeare’s English Historical Plays

UNIT II

Prescribed Textbook: Magic Casements by Board of Editors, Published by Orient Blackswan

POETRY:

The following poems are prescribed

1. Ode on a Grecian Urn- John Keats
2. Kubla Khan- S.T. Coleridge
3. Snake- D.H. Lawrence
4. A Prayer for My Daughter – W.B.Yeats
5. Alexander’s Feast (Extract) – John Dryden

UNIT III

Prescribed Textbook : Magic Casements by Board of Editors, Published by Orient Blackswan

A) Introduction to Literary Terms

Following Literary Terms are prescribed

1. Archetype
2. Ballad
3. Bathos
4. Burlesque
5. Carpe-Diem
6. Character
7. Negative Capability
8. Chronicle Plays
9. Anachronism
10. Angry Young Men
11. Kitchen Sink Drama
12. Genteel Comedy
13. Domestic Tragedy
14. Bread and Puppet Theatre
15. Medievalism
16. Metatheatre

B) Introduction to Literary Theories

Following Literary Theories are prescribed

1. Theory of the Sublime
2. New Historicism
3. Subaltern Studies

UNIT IV

Prescribed Textbook: Macbeth (The Philip Weller Text): William Shakespeare Published by Orient Blackswan

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on Unit II, III & IV.

2.2 Marathi

**SYLLABUS
PRESCRIBED FOR
B. A. - Part I EXAMINATION
Semester I
English Literature**

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSTMENT: 20 MARKS

UNIT I

Text Prescribed : A Background to the study of English Literature by B.Prasad.

Chapters Prescribed :

Chapter – I Subjective & Objective

Chapter – II Poetic Forms (All)

Chapter – III Stanza Forms (All)

UNIT II

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan.

POETRY :

The following Poems are prescribed :

1. Upagupta – Rabindranath Tagore
2. After Apple –Picking - Robert Frost
3. The Chimney Sweeper - William Blake
4. Dover Beach - Matthew Arnold
5. A prayer for my Daughter - W.B Yeats

UNIT III

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan.

A) Introduction to the Literary Terms -I

Following Literary Terms are prescribed :

- | | |
|-----------------------|--------------------|
| 1. Allegory | 9. Folklore |
| 2. Dramatic Monologue | 10. Irony |
| 3. Blank Verse | 11. Tragedy |
| 4. Comedy | 12. Parody |
| 5. Conceit | 13. Diction |
| 6. Style | 14. Poetic Justice |
| 7. Plot | 15. Pathos |
| 8. Setting | 16. Free Verse |

B) Introduction to Literary Theory - I

Following Literary Theories are prescribed :

1. Rasa Theory
2. New Criticism
3. Existentialism

UNIT IV

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan

ONE ACT PLAY :

The following One Act Plays are prescribed :

1. The Proposal - Anton Chekhov
2. While the auto waits - O. Henry

UNIT-V

MULTIPLE CHOICE QUESTIONS -

Based on Unit I, II, III & IV.

English Literature

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MIN PASSING MARKS : 32 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

Unit I : A Background to the study of English Literature

i) The students will have to answer FOUR out of SIX questions in 200 words each questions.

(Each carries FOUR marks) = 16 Marks

Unit II : Poetry

i) The students will have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks

ii) The students will have to attempt TWO out of FOUR passages for explanation with reference to the context (Each carries FOUR marks) = 8 Marks

Unit III :

A) Introduction to Literary Terms

The students will have to answer THREE out of FIVE Literary Terms

(Each carries THREE marks) = 9 Marks

B) Introduction to Literary Theory

The students will have to answer ONE out of TWO Literary Theories

= 7 Marks

Unit IV : ONE ACT PLAY

The students will have to answer TWO out of THREE long answer questions.

(Each carries EIGHT marks) = 16 Marks

Unit V : Multiple Choice Questions (MCQ)

The students will have to answer SIXTEEN MCQ's

(Each carries ONE mark) = 16 Marks

Internal Assessment

i) Viva- Voce

= 10 Marks

ii) Assignments (Assignments based on prescribed syllabus)

= 10 Marks

**SYLLABUS
PRESCRIBED FOR
B. A. - Part I EXAMINATION
Semester II
English Literature**

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

UNIT I

Text Prescribed : A Background to the study of English Literature by B.Prasad.

Chapter Prescribed :

CHAPTER IV: Schools and Movements

Following School & Movements are prescribed :

- The Metaphysical School of Poets
- The Classical Movement
- The Romantic Revival
- The Pre Raphaelites
- The Poet of the 1st World War
- The Poet of the 2nd World War

UNIT II

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan.

POETRY :

The following Poems are prescribed :

1. The Pulley - George Herbert
2. The World is too much with us - William Wordsworth
3. Ode To Solitude - Alexander Pope
4. Father Returning Home - Dilip Chitre
5. Ozymandius - P.B Shelley

UNIT III

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan.

A) Introduction to the Literary Terms – II

Following Literary Terms are prescribed :

1. Chorus
2. Prologue
3. Epilogue
4. Genre
5. Pastoral
6. Paradox
7. Melodrama
8. Imagery
25. Humour
26. Gothic Novel
27. Rhyme
28. Rhythm
29. Cadence
30. Caesura
31. Stress
32. Intonation

B) Introduction to Literary Theory

Following Literary Theories are prescribed :

1. Reader Response Theory
2. Orientalism
3. Cultural Studies

UNIT IV

Prescribed Text : Lovely Woods by Board of Editors & published by Orient Blackswan.

ONE ACT PLAY :

The following One Act Plays are prescribed :

1. Riders to the Sea - J.M Synge
2. The Dear Departed - Stanley Houghton

UNIT -V

MULTIPLE CHOICE QUESTIONS -

Based on Unit I, II, III & IV.

English Literature

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MIN PASSING MARKS : 32 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

Unit I : A Background to the study of English Literature

- i) The students will have to answer FOUR out of SIX questions in 200 words each questions.
(Each carries FOUR marks) = 16 Marks

Unit II : Poetry

- i) The students will have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks
ii) The students will have to attempt TWO out of FOUR passages for explanation with reference to the context (Each carries FOUR marks) = 8 Marks

Unit III :

A) Introduction to Literary Terms-II

The students will have to answer THREE out of FIVE Literary Terms
(Each carries THREE marks) = 9 Marks

B) Introduction to Literary Theory- II

The students will have to answer ONE out of TWO Literary Theories = 7 Marks

Unit IV : ONE ACT PLAY

The students will have to answer TWO out of THREE long answer questions.
(Each carries EIGHT marks) = 16 Marks

Unit V : Multiple Choice Questions (MCQ)

The students will have to answer SIXTEEN MCQ's
(Each carries ONE mark) = 16 Marks

Internal Assessment

- i) **Viva- Voce** = 10 Marks
ii) **Assignments** (Assignments based on prescribed syllabus) = 10 Marks

**SYLLABUS
PRESCRIBED FOR
B.A PART II EXAMINATION
SEMESTER III
ENGLISH LITERATURE
UNIT I**

Text Prescribed : A Background to the study of English Literature by B.Prasad.

Chapters Prescribed :

Chapter II - The Novel

Chapter III - The Short Story

Chapter IV - Biography and Autobiography

UNIT II

**Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan
POETRY :**

The following poems are prescribed

1. Palanquin Bearers - Sarojini Naidu
2. Between These Lines - S Joseph
3. The Epileptic - Keki N Daruwalla
4. A Walk by Moonlight - Henry Derozio
5. Endless Time - Rabindranath Tagore

UNIT III

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan

A)Introduction to Literary Terms - I

Following Literary Terms are prescribed

1. Point of View
2. Anticlimax
3. Climax
4. Binary Opposition
5. Euphemism
6. Subaltern
7. Oxymoron
8. Picaresque Narrative
9. Epistolary Novel
10. Bildungsroman
11. Ekphrastic Poem
12. Stream of Consciousness Narrative
13. Metafiction
14. Objective Correlative
15. Platonic Love
16. Anti-Hero

B)Introduction to Literary Theories - I

Following Literary Theories are prescribed

1. Archetypal Criticism
2. Russian Formalism
3. Structuralism
4. Narratology

UNIT IV

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan

SHORT STORIES :

Following Short Stories are prescribed

1. A Cup of Tea - Katherine Mansfield
2. The Bird Comes to Yellow Sky - Stephen Crane
3. A Job Well Done - Ruskin Bond
4. The Antidote - R.K Narayan

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on Unit II, III & IV.

BA Part II
English Literature
Semester III
SGB Amravati University, Amravati

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MIN PASSING MARKS : 32 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

Unit I : A Background to the study of English Literature

- i) The students will have to answer TWO out of FOUR long answer questions
(Each carries EIGHT marks) = 16 Marks

UNIT II (16 Marks)

Unit II : Poetry

- i) The students will have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks
ii) The students will have to attempt TWO out of FOUR passages for explanation with reference to the context
(Each carries FOUR marks) = 8 Marks

UNIT III (16 Marks)

Unit III :

A) Introduction to Literary Terms

The students will have to answer TWO out of FOUR Literary Terms
(Each carries FOUR marks) = 8 Marks

B) Introduction to Literary Theory

The students will have to answer ONE out of TWO Literary Theories = 8 Marks

UNIT IV (16 Marks)

Unit IV : SHORT STORIES

The students will have to answer TWO out of THREE long answer questions.
(Each carries EIGHT marks) = 16 Marks

UNIT V (16 Marks)

Unit V : Multiple Choice Questions (MCQ)

The students will have to answer SIXTEEN MCQ's
(Each carries ONE mark) = 16 Marks

Internal Assessment

i) Viva- Voce = 10 Marks

ii) Assignments (Assignments based on prescribed syllabus) = 10 Marks

SYLLABUS
PRESCRIBED FOR
B.A PART II EXAMINATION
SEMESTER IV
ENGLISH LITERATURE
UNIT I

Text Prescribed : A Background to the study of English Literature by B.Prasad.

Chapters Prescribed :

Chapter I - The Essay

Chapter V - Criticism

Chapter VI - Style

UNIT II

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan

POETRY :

The following poems are prescribed

1. Sonnet - Alice Dunbar-Nelson
2. A Noiseless Patient Spider - Walt Whitman
3. Brahma - Ralph Waldo Emerson
4. Art - Herman Melville
5. The Lonely House - Emily Dickinson

UNIT III

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan

A) Introduction to Literary Terms - II

Following Literary Terms are prescribed

1. Humanism
2. Naturalism
3. Refrain
4. Motif
5. Fantasy
6. Aestheticism
7. Absurdism
8. Alienation Effect
9. Pantomime
10. Decorum
11. Pathetic Fallacy
12. Soliloquy
13. Round & Flat Characters
14. Hypertext
15. Blog
16. Affective Fallacy

B) Introduction to Literary Theories - II

Following Literary Theories are prescribed

1. Post- Colonialism
2. Post - Structuralism
3. Feminism
4. Psychoanalytic Criticism

UNIT IV

Prescribed Textbook : Unheard Melodies by Board of Editors, Published by Orient Blackswan

ESSAYS :

Following Essays are prescribed

1. Walking Tour - R.L Stevenson
2. The Worship of the Wealthy - GK Chesterton
3. On Revenge - Francis Bacon
4. On The Feeling of Immortality in Youth - William Hazlitt

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on Unit II, III & IV.

**BA Part II
English Literature
Semester IV
SGB Amravati University, Amravati**

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS : 32 MARKS

MIN PASSING MARKS : 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

Unit I : A Background to the study of English Literature

- i) The students will have to answer TWO out of FOUR long answer questions
(Each carries EIGHT marks) = 16 Marks

UNIT II (16 Marks)

Unit II : Poetry

- i) The students will have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks
ii) The students will have to attempt TWO out of FOUR passages for explanation with reference to the context
(Each carries FOUR marks) = 8 Marks

UNIT III (16 Marks)

Unit III :

A) Introduction to Literary Terms

The students will have to answer TWO out of FOUR Literary Terms
(Each carries FOUR marks) = 8 Marks

B) Introduction to Literary Theory

The students will have to answer ONE out of TWO Literary Theories = 8 Marks

UNIT IV (16 Marks)

Unit IV : ESSAYS

The students will have to answer TWO out of THREE long answer questions.
(Each carries EIGHT marks) = 16 Marks

UNIT V (16 Marks)

Unit V : Multiple Choice Questions (MCQ)

The students will have to answer SIXTEEN MCQ's
(Each carries ONE mark) = 16 Marks

Internal Assessment

i) **Viva- Voce = 10 Marks**

ii) **Assignments (Assignments based on prescribed syllabus) = 10 Marks**

**BA Part III
English Literature
Semester V
SGB Amravati University, Amravati**

TIME: 3 HOURS

MAX MARKS THEORY: 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS: 32 MARKS

MIN PASSING MARKS: 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

Unit I : A Background to the study of English Literature

i) The students shall have to answer TWO out of FOUR long answer questions
(Each carries EIGHT marks) = 16 Marks

UNIT II (16 Marks)

Unit II : Poetry

i) The students shall have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks
ii) The students shall have to attempt TWO out of FOUR passages for explanation with reference to the context
(Each carries FOUR marks) = 8 Marks

UNIT III (16 Marks)

Unit III :

A) Introduction to Literary Terms

The students shall have to answer TWO out of FOUR Literary Terms
(Each carries FOUR marks) = 8 Marks

B) Introduction to Literary Theory

The students shall have to answer ONE out of TWO Literary Theories = 8 Marks

UNIT IV (16 Marks)

Unit IV : Macbeth

The students shall have to answer TWO out of THREE long answer questions.
(Each carries EIGHT marks) = 16 Marks

UNIT V (16 Marks)

Unit V : Multiple Choice Questions (MCQ)

The students shall have to attempt SIXTEEN Multiple Choice Questions
(Each carries ONE mark) = 16 Marks

Internal Assessment

i) Viva- Voce = 10 Marks

ii) Assignments (Assignments based on prescribed syllabus) = 10 Marks

**SYLLABUS
PRESCRIBED FOR
B.A PART III EXAMINATION
SEMESTER VI
ENGLISH LITERATURE
UNIT I**

Text Prescribed : A Background to the study of English Literature by B.Prasad. (Section II DRAMA)

Chapters Prescribed :

Chapter II - 2) Tragi-comedy

Chapter III - 2) Soliloquy and Aside

Chapter VI - 1) Shakespearean Comedy 3) Shakespearean Romance

UNIT II

Prescribed Textbook: Magic Casements by Board of Editors, Published by Orient Blackswan

POETRY:

The following poems are prescribed

1. Ulysses: Alfred Tennyson
2. Tiger and the Deer - Aurbindo
3. La Belle Dame Sans Merci - John Keats
4. Song of Myself- (Section I) Walt Whitman
5. Death Be Not Proud - John Donne

UNIT III

Prescribed Textbook : Magic Casements by Board of Editors, Published by Orient Blackswan

A) Introduction to Literary Terms

Following Literary Terms are prescribed

1. Renaissance
2. Reformation
3. Restoration
4. Empathy & Sympathy
5. Enlightenment
6. Dialect
7. Jargon
8. Fable
9. Fairy Tale
10. Myth
11. Protagonist
12. Leitmotif
13. Hamartia
14. Muse
15. Dilemma
16. Peripeteia

B) Introduction to Literary Theories

Following Literary Theories are prescribed

1. Eco-Criticism
2. Queer Theory
3. Marxist Criticism

UNIT IV

Prescribed Textbook : Twelfth Night (Philip Weller Text) : William Shakespeare, Published by Orient Blackswan

UNIT V

MULTIPLE CHOICE QUESTIONS

Based on Unit II, III & IV.

**BA Part III
English Literature
Semester VI**

SGB Amravati University, Amravati

TIME: 3 HOURS

MAX MARKS THEORY: 80 MARKS

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

MIN PASSING MARKS: 32 MARKS

MIN PASSING MARKS: 08 MARKS

Distribution of Marks

UNIT I (16 Marks)

Unit I: A Background to the study of English Literature

i) The students shall have to answer TWO out of FOUR long answer questions
(Each carries EIGHT marks) = 16 Marks

UNIT II (16 Marks)

Unit II: Poetry

i) The students shall have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks

ii) The students shall have to attempt TWO out of FOUR passages for explanation with reference to the context
(Each carries FOUR marks) = 8 Marks

UNIT III (16 Marks)

Unit III:

A) Introduction to Literary Terms

The students shall have to answer TWO out of FOUR Literary Terms
(Each carries FOUR marks) = 8 Marks

B) Introduction to Literary Theory

The students shall have to answer ONE out of TWO Literary Theories = 8 Marks

UNIT IV (16 Marks)

Unit IV : Twelfth Night

The students shall have to answer TWO out of THREE long answer questions.
(Each carries EIGHT marks) = 16 Marks

UNIT V (16 Marks)

Unit V : Multiple Choice Questions (MCQ)

The students shall have to attempt SIXTEEN Multiple Choice Questions
(Each carries ONE mark) = 16 Marks

Internal Assessment

i) Viva- Voce = 10 Marks

ii) Assignments (Assignments based on prescribed syllabus) = 10 Marks

2.3 Home Economics

B.A. Part-I (Home Economics)
Semester -I
Paper- Family Resource Management and Interior Decoration

Time- 3 Hours for Theory	Total :	100 Marks
3 Hours for Practical	Theory :	50 Marks
Periods Per Week- Theory - 5	Internal assessment :	20 Marks
Practical - 2 (per practical)	Practical :	30 Marks

Objectives:

- 1) To introduce the student to the field of Home Economics.
- 2) To create an awareness among the students about resources and their management in the family.
- 3) To make aware about decision making and to enhance the decision making capability of the women .
- 4) To provide knowledge and develop skills regarding principles and methods of interior decoration.
- 5) To develop skill regarding preparing the Bouquets and Flower Arrangements for decoration and enhance the chances of employment.

Unit I : Introduction to Home Economics.

- 1.1 Introduction to Home Economics
- 1.2 Meaning, Definition, Need and Importance of Home Economics.
- 1.3 Branches of Home Economics and their utility in the daily life.
 - i) Food and Nutrition.
 - ii) Textile and Clothing
 - iii) Human Development
 - iv) Family Resources Management
 - v) Extension Education and Communication
 - vi) Consumer Economics
 - vii) Human Relationship
- 1.4 Home Economics as Education for Life
- 1.5 Contribution of Home Economics Education in National Development

Unit II : Home Management and Family Resources

- 2.1 Meaning, Definition and Importance of Home Management
- 2.2 Process of Home Management
 - i) Planning
 - ii) Controlling
 - iii) Evaluation
- 2.3 Definition, Types and Classification of Family Resources
- 2.4 Characteristics of Family Resources
- 2.5 Factors affecting resource management

Unit III : Decision Making

- 3.1 Meaning and Definition of Decision Making
- 3.2 Process of Decision Making
- 3.3 Types of Decision Making
- 3.4 Role of Decision Making in Home Management.
- 3.5 Decision Tree and Factors affecting Decision Making Process

Unit IV : Elements and Principles of Art. Colour Scheme

- 4.1 Definition and Introduction of following Elements of Art
- | | | | |
|----------|--------------|-----------|--------------|
| i) Line | iii) Texture | v) Light | vii) Pattern |
| ii) Form | iv) Colour | vi) Space | viii) Idea |
- 4.2 Definition and Importance and Application in Interior Decoration of following Principles of Art
- | | | |
|--------------------------|--------------|-------------|
| i) Harmony | iii) Balance | v) Emphasis |
| ii) Scale and Proportion | iv) Rhythm | |
- 4.3 Source of Colour, Classification of Colours
- | |
|---|
| i) Primary Colours |
| ii) Secondary Colours |
| iii) Intermediate Colours |
| iv) Tertiary Colours |
| v) Quarternery Colours and Colour Wheel |
- 4.4 Effect of Colours and Colour Scheme
- | |
|-------------------------------|
| i) Relative Colour Scheme |
| ii) Contrasting Colour Scheme |
- 4.5 Factors affecting the choice of Colours. Colour Scheme for Different Rooms.

Unit V : Flower Arrangement

- 5.1 History, Objectives and Definition of Flower Arrangement.
- 5.2 Importance of Flowers, Flower Arrangement and Bouquets in Human Life.
- 5.3 Material Required for Flower Arrangement.
- 5.4 Factors to be considered while arranging flowers.
- 5.5 Types of Flower Arrangements.
- | |
|-----------------------|
| i) Traditional |
| ii) Japanese |
| iii) Modern |
| iv) Miniature |
| v) Dry Arrangement |
| vi) Line Arrangement |
| vii) Mass Arrangement |

Internal Assessment : (20 Marks)

Distribution of Marks

- Organizing Demonstration or Guest Lecture on Flower Arrangement and Bouquet
OR Colour Scheme through Greeting Cards / Rangoli Report Writing and Submission
on Guest Lecture or Demonstration **10 Marks**
- Attending, Submission and Presentation of seminar based on syllabus

Total 10 Marks
20 Marks

Practical :

(Time 3 Hours)

1. Class work

- a) Practical record book. -
 - i) Selection of Design Pattern, Thread, Needle and Colour Scheme for Embroidery
 - ii) Methods of Embroidering following Stitches

1- Stem Stitch	2- Chain Stitch	3- Lazy Dazy
4- Button Hole	5- Feather Stitch	6- Satin Stitch
- b) Embroidering all above stitches on a single scarf or separate handkerchiefs and submission thereof.
- c) Different Classes of Colour and Colour Scheme in designs through preparation of Greeting Cards and Envelopes.

Practical Examination : (30 Marks)

Time: 3 Hours.

Distribution of Marks

- 1 Class work
 - a) Practical Record Book - - - - - **5 Marks**
 - b) Embroidering Stitches on scarf or handkerchiefs - - - - - **5 Marks**
 - c) Colour Scheme on Greeting Cards and Envelopes - - - - - **5 Marks**
- 2 Examination
 - a) Embroidery Sample (Any Two Stitches) - - - - - **8 Marks**
 - b) Colour Scheme on Greeting Card - - - - - **4 Marks**
 - c) Viva - - - - - **3 Marks**

Total 30 Marks

Note- One Record Book shall be maintained by each student. Record Book shall contain the following :

- a) Methods of Embroidering the stitches with the help of diagrams and designs
- b) Small samples of Stitches.
- c) Illustration of Colour and Colour Scheme through different Designs / Pattern

Note: *The Record Book should be duly certified by the Head of the Department and should be signed and certified by the teacher after every practical.*

Reference Books:

1. Gross & Grandall, " Management for Modern Families", Appleton century crafts, New York.
2. P. Nickell & Dorsey. J.M., "Management in Family Living", Wiley Eastern Ltd. New Delhi.
3. Bhargara Bela, " Family Resource Management & Interior Decoration," University Book House Private Ltd., Jaipur.
4. Rutt, Anna Hong, "Home Furnishing", Wiley Eastern Private Ltd. New Delhi.
5. Goldsmith " Art in everyday Life" Mc. Millan, New York.
6. Deshpande R.S.-"Modern Ideal Houses for Indian," United Book Corporation, Pune.
- 7) मुन्शी आणि जठार – गृहअर्थशास्त्र भाग – १, पिंपळापूरे एन्ड कंपनी पब्लिशर्स, नागपूर.
- 8) लिमये क्षमा – गृहअर्थशास्त्र आणि गृहकला, विद्या प्रकाशन, नागपूर
- 9) वसू आणि महाजन - आधुनिक गृहअर्थशास्त्र, मंगेश प्रकाशन, नागपूर.
- 10) पुरब प्रभावती - भरत कला, मॅजेस्टीक बुक डेपो, मुंबई.
- 11) कोकड अ.वि. - अभिनव भरतकला.
- 12) शेरी जे.पी.-गृहकला एवं गृहप्रबंध
- 13) कांडलकर लिना – गृहअर्थशास्त्राची मुलतत्त्वे. विद्या प्रकाशन, रुईकर पथ, नागपूर.
- 14) फरकाडे त्रिवेणी, गोंगे सुलभा – गृहविज्ञान विस्तार
- 15) स्वर्णजयंती ग्राम स्वयंरोजगार योजना - मार्गदर्शक तत्त्वे महाराष्ट्र शासन ग्रामविकास व जलसंधारण विभाग, मुंबई.
- 16) फरकाडे त्रिवेणी, गोंगे सुलभा, कौटुंबिक संसाधनांचे व्यवस्थापन आणि गृहसजावट.

B.A. Part-I (Home Economics)

Semester -II

Paper- Family Resource Management and Interior Decoration

Time- 3 Hours for Theory	Total :	100 Marks
3 Hours for Practical	Theory :	50 Marks
Periods Per Week- Theory - 5	Internal assessment :	20 Marks
Practical - 2 (per practical)	Practical :	30 Marks

Objectives:

1. To acquire basic knowledge of principles involved in planning of residential house.
2. To learn and apply various methods and techniques of Work Simplification.
3. To develop employability skills and the skill of "earning while learning."
4. To bring awareness about waste management and water conservation for environment protection.
5. To train the students from self employment point of view.

Unit 1 : Family Housing

1.1 Family's housing needs

- | | | |
|----------------|-----------------------|---------------|
| a) Protective, | d) Social | g) Style |
| b) Economic, | e) Standard of Living | h) Function |
| c) Affectional | f) Housing Goals | i) Occupation |

1.2 Factors Affecting Selection of Site for House Building

- | | | | |
|-----------------|----------------------|-------------------|----------------|
| a) Legal Aspect | c) Physical Features | e) Soil Condition | g) Cost factor |
| b) Location | d) Health aspect | f) Services | |

1.3 Principles of House Planning

- | | | | |
|----------------------|----------------|-----------------|----------------|
| a) Orientation | d) Circulation | g) Spaciousness | j) Light |
| b) Grouping of Rooms | e) Flexibility | h) Aesthetics | k) Ventilation |
| c) Roominess | f) Privacy | i) Economy | |

1.4 Types of Kitchen (Shapes)

- | | | |
|------------------------|--------------------|---------------------------|
| a) One wall kitchen | c) L Shape Kitchen | e) Broken U Shape Kitchen |
| b) Double wall Kitchen | d) U Shape Kitchen | |

1.5 Recent Trends in Kitchen

Unit 2: Work Simplification.

- 2.1 Meaning, Importance and Definition of Work Simplification.
- 2.2 Principles of Work Simplification.
- 2.3 Mundel's Law (Classes) of changes.
- 2.4 Techniques of Work Simplification.
- 2.5 Improving methods of Work Simplification.

Unit 3: Furniture Arrangement

- 3.1 Styles of Furniture
 - a) Traditional
 - b) Contemporary
 - c) Modern
- 3.2 Types of Furniture
- 3.3 Factors involved in selection of Furniture.
- 3.4 Arrangement of Furniture in different rooms.
- 3.5 Care of different types furniture.

Unit 4 : Water Conservation, Drainage and Waste Disposal.

- 4.1 Need, importance and methods of water conservation.
- 4.2 Need and Importance of house drainage.
- 4.3 Methods of House Drainage.
 - i) Dilution
 - ii) Purification
 - iii) Soak pits.
- 4.4 Types of waste and need of waste disposal.
- 4.5 Methods of waste disposal.
 - a) Composting.
 - b) Vermicomposting.
 - c) Conservancy System.
 - d) Dumping.
 - e) Incineration.

Unit 5: Job Opportunities, Self Employment and Abilities.

- 5.1 Definition of Employment and Self Employment. Need of Self Employment in Home Economics.
- 5.2 Opportunities of Job and Self Employment in Home Economics.
- 5.3 Guiding Principles of Self Employment.
- i) Registration
 - ii) Training
 - iii) Knowledge of Equipments, their care and Material Required.
 - iv) Loan Facility
 - v) Preparation of Project Report.
 - vi) Account Keeping
 - vii) Costing
 - viii) Labeling
 - ix) Packaging
 - x) Marketing.
- 5.4 Concept and Benefits of Self Help Groups and the role of Self Help Groups in women empowerment.
- 5.5 Ways of success of Self Help Groups and Role of MAVM (Mahila Arthik Vikas Mandal) in Self Help Groups

Internal Assessment : (20 Marks)

Distribution of Marks:

1. Visit / Exhibition of articles made by students.
Visit to any one of the following
 - i) Cottage Industry
 - ii) Self help Group
 - iii) Women Entrepreneurship Establishment
 - iv) Exhibition cum sell

Report writing and submission of the above activity **10 Marks**
 3. Attending, Submission and Presentation of seminar based on syllabus **10 Marks**
- Total 20 Marks**

Practical :

1. Class work
 - a) Practical record book. -
 - i) Methods of Embroidering the stitches with the help of diagrams and designs.
 - ii) Embroidering following Stitches

1- Bullion (knot) Stitch	2- Bead Work	3- Glass Work
4- Herringbone	5- Kantha Work	6- Jardozi ork
 - b) Embroidering two or three of the above stitches on the Apron.
 - c) Preparing any one article based on "Best out of Waste."
(Preparing Bags/ Envelopes from waste papers or Block Printing on Envelopes or Cards)

Practical Examination : (30 Marks)

(Time 3 Hours)

Distribution of Marks

- 1 **Class work**
 - a) Practical Record Book **5 Marks**
 - b) Embroidering Stitches on Apron. **5 Marks**
 - c) Any one article based on "Best out of Waste." **5 Marks**
 - 2 **Examination**
 - a) Embroidery Sample (Any Two Stitches) **8 Marks**
 - b) Preparing Bags/ Envelopes from waste papers or any article based on "Best out of Waste" or Block Printing on Envelopes or Cards **4 Marks**
 - c) Viva **3 Marks**
- Total 30 Marks**

Pattern of Question Paper
Examination: B.A.(Part I,II& III) Home Economics

Time- 3 Hours

Full Marks -50

- Instructions:** i) All questions are compulsory
ii) All questions carry equal marks.
- Question No. 1: Long answer question with internal choice from any unit of 10 Marks.
Question No. 2: Long answer question with internal choice from any unit of 10 Marks.
Question No. 3: Four Short Answer questions with internal choice from any unit of 2½ Marks each (2½ x 4= 10 Marks)
Question No. 4: Four Short Answer questions with internal choice from any unit of 2½ Marks each (2½ x 4= 10 Marks)
Question No. 5: Ten objective questions without internal choice. (1 x 10 = 10 Marks)

- Note:** i) *Two long answer questions from any two unit.*
ii) *Two short answer question from any two of the remaining units.*
iii) *Objective question should be based on remaining unit.*

Rules and Regulations

- 1- There will be **five periods per week** for theory paper.
- 2- **For one practical** there will be **two periods per week per batch.**
- 3- The batch for practical will comprise of **Sixteen students.**
- 4- Next (second) batch will be started when the number of students exceed 19. (i.e. when the number of students exceed 20% of the approved batch of 16 Students.)
- 5- The minimum passing marks of theory paper will be 20 (*i.e.40%*).
- 6- The minimum passing marks for practical will be 12 (*i.e.40%*)
- 7- The minimum passing marks for internal assessment will be 8 (*i.e.40%*)
- 8- Separate passing in theory, practical and internal assessment is necessary.
- 9- Marks will not be allotted to students if she is found absent for Practical and sessional.

Private candidate

- 1- With regard to the practical work the private candidate should be instructed to complete the practical prescribed in the college where she desires to appear for annual practical. The record book should be duly signed by the concerned head of the department.
- 2- Private candidate should write to the Principal concerned at the beginning of the session for permission to appear for the practical examination from the college.

Syllabi of B.A.Part-II (Home Eco.)
Semester-III
Food Science & Nutrition
(Implemented From 2018-2019 Session)

Periods of Instruction Per week - 5

Theory : 5 Periods

Practical : 2 Periods Per Batch

Full Marks : 100

Theory : 50

Int. Ass. : 20

Practical : 30

Objectives: This Course will enable the students :-

1. To understand the Basic Concept of Nutrition.
2. To gain the knowledge of Food, Food Functions and Nutritive Value of Foods.
3. To Develop abilities to plan Diets for various stages.
4. To Inspire the Entrepreneurial Skill.

Syllabus

Unit-I

- 1.1 Introduction of Food and Nutrition
- 1.2 Definitions : Food, Nutrition, Nutrients, Nutritional Status, Malnutrition and Health
- 1.3 Relation between Health and Nutrition
- 1.4 Functions of Foods : Physical, Psychological, Socio-Cultural

Unit-II

Energy Giving Nutrients:

- 2.1 Fats and Carbohydrates- Classification, Sources, Functions, Requirement, Deficiency Symptoms, & Symptoms due to Excess Consumption.
- 2.2 Cereals :- i) Types and Nutritive Value ii) Products
iii) Gelatinization & Food Quality Improving Methods
- 2.3 Fats - Classification, Sources, Functions, Requirement, Deficiency Symptoms, & Symptoms due to Excess Consumption.
- 2.4 Oil and Oilseeds :- Types, Nutritive Value

Unit-III

Body Building Nutrient :

- 3.1 Protein - Classification, Sources, Functions, Requirement Deficiency Symptoms,
- 3.2 Pulses and Legumes - Types and Nutritive Value.
- 3.3 Eggs- Structure, Nutritive value,
- 3.4 Meat, Fish & Poultry - Types , Nutritive Value and Selection

Unit-IV

Protecting and Regulating Nutrients:

- 4.1 Vitamin-A,B,C,D,E,K- Sources, Functions, Requirement Deficiency Symptoms
- 4.2 Minerals – Calcium, Phosphorus, Sodium Chloride, Iron, Iodine & Copper
Sources, Functions, Requirement Deficiency Symptoms
- 4.3 Vegetables and Fruits- Importance ,Types, Nutritive Value, Selection.
- 4.4 Water- Sources, Functions, Requirement Deficiency Symptoms

Unit-V

- 5.1 Balanced Diet-Meaning and Importance.
- 5.2 Factors affecting on Balanced Diet
- 5.3 Principles of Meal Planning
- 5.4 Balanced Diet for Childhood, Adolescence, Pregnancy & Lactating Mother.

Internal Assessment (Total Marks 20)

1. Visit to Food Industry / Home Industry/ Moll/ Market/ Shop and Submit Report.- 10 Marks
OR
To Prepare Regional Dish Any One(Group Work- Stall Management Aim).
OR
Demonstration Any One related to subject
2. Group Project (For Developing Research View) - 10 Marks

Class Work

- a) Celebration of Nutrition Week and Report
(Aim- Application of Nutrition Knowledge and Extension Activity)
- b) Evaluation of Self Diet (One Week)

Practical (Total 30 Marks)

- a) Weights & Measures
- b) Demonstration of Pickles/ Masale/Gravies
- c) Regional Food Preparations Any One- Sambharwadi , Dahi Wada, Uttapa, Chhole Bature, Sambar Wada & Bengali Mithai. (Any One)
- d) Compute Cost and Nutritive Value of Two Rich Nutrients Dish.

Distribution of Practical Marks

- a) Preparation of Dish & Presentation (One Recipe) - 10 Marks
- b) Nutritive & Cost Value - 05 Marks
- c) Class Work - 08 Marks
- d) Record Book - 04 Marks
- e) Viva-Voce - 03 Marks

References :

1. Mudambi, S.R. and Rajgopal M.V. -Fundamental of Food and Nutrition, Wiley Eastern Limited Ansari Road, New Delhi, 1987.
2. Swaminathan, M. - Essential Food and Nutrition V.I & II. The Bangalore Printing and Publishing Comp, Mysore road, Bangalore.
3. ICMR Nutritive Value of Indian Book
4. ICMR Recommended Dietary Allowances.

5. Desai, Vasant - Entrepreneurship Development Himalaya Pub House 1991- Vol-I,II,and III.
6. Joshi, S.A. - Nutrition and Dietetics Tata MC Hill Pub Company Ltd New Delhi.
7. Shrilakshmi, B. - 1998 Dietetics Edi-III New Age international Ltd.Pub. Pune
8. Sethi, M. and Mathan, S. -Catering management and An Integrated approach, new Age International Private LTd. New Delhi
९. महाजनी, स्नेहा - आहारशास्त्राची मुलतत्वे, मंगेश प्रकाशन, नागपूर.
१०. लेले आणि देऊस्कर - आहारमिमांसा, म.वि. ग्रं.नि.मंडळ, नागपूर.
११. लेले आणि देऊस्कर - आहारशास्त्र विविध दृष्टीकोनातून, म.वि. ग्रं.नि.मंडळ, नागपूर.
१२. टिळक, निर्मला - पार्टी-पार्टी शाकाहारी, पॉप्युलर प्रकाशन, मुंबई
१३. परुळेकर, आशा आणि कांबळे वसुंधरा - रूचिपूर्णा, शारथ साहित्य, बुधवारपेठ, पुणे.
१४. लेले सरळ - पोषण व आहारशास्त्र परिचय.
१५. देऊस्कर, आशा आणि जोशीसंध्या- अन्न व पोषण प्रात्यक्षिक कार्यपुस्तीका, प्रकाशक, व्ही.एल.देऊस्कर, वृंदावन कॉलनी, अमरावती.

General Reading :

1. Encyclopedia of Social Sciences.

**Syllabi of B.A.Part-II (Home Eco.)
Semester-IV
Food Science & Nutrition
(Implemented From 2018-2019 Session)**

Periods of Instruction Per week - 5

Theory : 5 Periods

Practical : 2 Periods Per Batch

Full Marks : 100

Theory : 50

Practical : 30

Int. Ass. : 20

Objectives: This Course will enable the students :-

1. To understand the Basic Concepts related to Nutrition.
2. To development abilities to plan diets for various diseases.
3. To understand the methods of Food Preparation and Food Preservation.
4. To encourage the students for self employment.
5. To aware the work of different agencies in the area of health.

Syllabus

Unit-I

1.1 Definitions :Dietetics, Dieticians and Diet Therapy

1.2 Objectives and Principles of Diet Therapy

1.3 Types of Therapeutic Diet and Role of Dietician in Diet Therapy

1.4 National and International Agencies –WHO, UNICEF, NIN & FAO.

Unit-II

2.1 Digestive System Diseases-Constipation, Acidity and Anemia (Symptoms, Causes, and Dietary Treatment)

2.2 Liver Disease - Jaundice (Symptoms, Causes, and Dietary Treatment)

2.3 Pancreas Disease-Diabetes (Symptoms, Causes, and Dietary Treatment)

2.4 Heart Disease-(Symptoms, Causes, and Dietary Treatment)

Unit-III

1.1 Food Cooking - Importance and Objectives

1.2 Modern Methods of Cooking

1.3 Advantage and Disadvantages of Food Cooking

1.4 Processes –Pre-Cooking Processes and Improving Nutritional Quality of Food- Germination, Fermentation

Unit-IV

1.1 Food preservation-Meaning and Objectives

1.2 Principles of Food Preservation

1.3 Household methods of Food Preservation

1.4 Industrial Methods of Food Preservation

Unit-V

- 5.1 Food Spoilage-Meaning and Objects
5.2 Food Adulteration-Meaning and Health Hazards
5.3 Identification of Food Adulteration and Precautions.
5.4 Food Adulteration Prevention Law

Internal Assessment (Total Marks 20)

1. Prepared Therapeutic Diet Plan for any Diseases - 10 Marks
(Aim-Stall Management and Marketing)
OR
Any Preservative Item (Aim-Stall Management and Marketing)
OR
Demonstration Related to Subject Object -
2. Preparation of Innovative Nutritive Dish Using Local Food Stuff (Any One) - 10 Marks

Class work

a) Preparation Scrap Book

Practical (Total 30 Marks)

- a) Weights & Measures
b) Demonstration of Squash/ Juices/ Soup
c) One Dish of Rich Nutrient- Vitamin-A, Calories, Protein, Iron, Calcium & Thiamin
d) Compute Cost and Nutritive Value of Two Dishes.

Distribution of Practical Marks

- a) Preparation of Dish & Presentation (One Recipe) - 10 Marks
a) Nutritive & Cost Value - 05 Marks
b) Class Work - 08 Marks
c) Record Book - 04 Marks
e) Viva-Voce - 03 Marks

References :

1. Mudambi, S.R. and Rajgopal M.V.- Fundamental of Food and Nutrition, Wiley Eastern Limited Ansari Road, New Delhi, 1987.
2. Swaminathan, M. - Essential Food and Nutrition V.I & II. The Bangalore printing and publishing Comp, Mysore road, Bangalore.
3. ICMR Nutritive Value of Indian Book
4. ICMR Recommended Dietary Allowances.
5. Desai, Vasant - Entrepreneurship Development Himalaya Pub House 1991-Vol-I,II, and III.
6. Joshi, S.A. - Nutrition and Dietetics Tata MC Hill Pub Company Ltd New Delhi.
7. Shrilakshmi, B. - 1998 Dietetics Edi-III New Age international Ltd.Pub. Pune
8. Sethi, M. and Mathan, S. - Catering management and An Integrated approach, new Age International Private Ltd. New Delhi
९. महाजनी, स्नेहा - आहारशास्त्राची मुलतत्वे, मंगेश प्रकाशन, नागपूर.
१०. लेले आणि देऊस्कर - आहारमिमांसा, म.वि. ग्रं.नि.मंडळ, नागपूर.
११. लेले आणि देऊस्कर - आहारशास्त्र विविध दृष्टीकोनातून, म.वि. ग्रं.नि.मंडळ, नागपूर.
१२. टिळक, निर्मला - पार्टी-पार्टी शाकाहारी, पॉप्युलर प्रकाशन, मुंबई
१३. परुळेकर, आशा आणि कांबळे वसुंधरा - रुचिपूर्णा, शारथ साहित्य, बुधवारपेठ, पुणे.
१४. लेले सरळ - पोषण व आहारशास्त्र परिचय.
१५. देऊस्कर, आशा आणि जोशीसंध्या- अन्न व पोषण प्रात्यक्षिक कार्यपुस्तिका, प्रकाशक, व्ही.एल.देऊस्कर, वृंदावन कॉलनी, अमरावती.

General Reading :

1. Encyclopedia of Social Sciences.

Appendix – 'F'

**Syllabi of B.A. Part-II
Semester-III
Social Problems in India
(Implemented from 2018-19)**

Theory : 80
Int.Ass. : 20

Unit-I (A) Meaning of Social Problems, Nature of Social Problems,
(A) Perspectives on Social Problems : (1) Disorganization(2)
Anomie & Valuation Perspective.

Unit-II **Familiar Problems:**
(A) Dowry : Meaning of Dowry, Causes of Dowry, Effect of Dowry
(B) Domestic Violence against Women
(C) Divorce : Causes of Divorce, Social Implications Related Legal Provision Effect
of Divorce on Women

Unit-III Population Problems in India :

- (A) Characteristics of Indian Population, Population Explosion in India, Characteristics of Population Explosion.
(B) Causes of Population, Effect of Population Explosion
(C) Population Policy in India

Unit-IV Rural Contemporary in India :

- (A) Migration : Its Causes & Consequences
(B) Unemployment : Causes & Consequences
(C) Farmers Suicide & its Impact on Family.

Unit-V Problems of Alcoholism:

- (A) Meaning of Alcoholism, Causes of Alcoholism, Effect of Alcoholism on Family
(B) Drug Addiction : Nature & Impact of Drugs Abuse
(C) Causes and Effects of Drug Addiction.

Reference Books :

- 1) Bose N.K. 1967 - Culture & Society in India, Bombay, Asia Publishing House.
- 2) Doby S.D. 1990 - Society in India, New Delhi, National Book Trust.
- 3) Lewis Osear 1986 - Culture of Poverty, Scientific American Vol. II & IV, Now. 4PP 10.
- 4) Shama Ursulla 1983- Women Work & Doherty in North – West India, London Tavistock
- 5) Girish Dittmer - Social Problems Times of India Press.
- 6) Madan G.R. - India Social Problems
- 7) Memoria C.B. - Social Problems & Disorganization in India.
- ८) खडसे प्रा.भा.की. : भारतीय सामाजिक समस्या, मंगेश प्रकाशन,
- ९) लोटे प्रा.रा.ज. चौहाण, ए.डी. : भारतीय सामाजिक संरचना आणि सामाजिक समस्या, पिंपळापुरे अॅण्ड कंपनी पब्लिशर्स, नागपूर
- १०) किर्दकडॉ.बी.एच. : भारत में सामाजिक समस्या, इशिका पब्लिशिंग हाऊस, जयपूर, न्यु. देहली
- ११) आगलावेडॉ.प्रदिप : भारतीय सामाजिक संरचना आणि समस्या, श्री साईनाथ प्रकाशन, नागपूर
- १२) प्रा.शेख शब्बिर : पालकर, सामाजिक समस्या, संगम प्रकाशन, नागपूर,
- १३) डॉ. सुधाकाळदाते : भारतीय सामाजिक समस्या,
- १४) अहुजा राम : भारतीय सामाजिक समस्याएँ, रावत पब्लिकेशन, नई दिल्ली
- १५) खैरनारडॉ. दिलीप : आधुनिक भारतीय सामाजिक समस्या, चिन्मय प्रकाशन, औरंगाबाद

B.A.Part-II

Semester-IV

Social Problems in India

Theory : 80

Int.Ass. : 20

Unit-I Current Social Problems in India :

- (A) Meaning, Definition & Types of Corruption
(B) Factors Inducing Corruption
(C) Measures to Check Corruption

Unit-II Problem of Terrorism & White Collar Crime :

- (A) Meaning of Terrorism, Historical background of Terrorism, Characteristics of Terrorism.
(B) Causes of Terrorism in India

Unit-III Problems of Weaker Section in India :

- (A) Problems of Scheduled Caste in India, Causes & Solution
(B) Problems of Scheduled Tribe in India, Causes, Solution

Unit-IV Problems Relating to Urbanization :

- (A) Slum: Meaning, Causes of Slum, Remedy of Slum
(B) Crime: Meaning, Causes measures for Reforming Criminals.
(C) Juvenile Diligence : Meaning Causes, Reformation of Delinquents

Unit-V Intolerance, Riot Crime :

- (A) Caste, Religious & Cultural Intolerance
(B) Communal Riots, Caste & Ethnic Conflict
(C) Violence and Crime against Women & the Marginalized

Reference Books :

- 1) Bose N.K. 1967 - Culture & Society in India, Bombay, Asia Publishing House.
- 2) Duby S.D. 1990 - Society in India, New Delhi, National Book Trust.
- 3) Lewis Osear 1986 - Culture of Poverty, Scientific American Vol. II & IV, Now. 4PP 10.
- 4) Shama Ursulla 1983- Women Work & Doherty in North – West India, London Tavistock
- 5) Girish Dittmer - Social Problems Times of India Press.
- 6) Madan G.R. - India Social Problems
- 7) Memoria C.B. - Social Problems & Disorganization in India.
- ८) खडसे प्रा.भा.की. : भारतीय सामाजिक समस्या, मंगेश प्रकाशन,
- ९) लोटे प्रा.रा.ज. चौहाण, ए.डी. : भारतीय सामाजिक संरचना आणि सामाजिक समस्या, पिंपळापुरे अॅण्ड कंपनी पब्लिशर्स, नागपूर
- १०) किर्दकडॉ.बी.एच. : भारत में सामाजिक समस्या, इशिका पब्लिशिंग हाऊस, जयपूर, न्यु. देहली
- ११) आगलावेडॉ.प्रदिप : भारतीय सामाजिक संरचना आणि समस्या, श्री साईनाथ प्रकाशन, नागपूर
- १२) प्रा.शेख शब्बिर : पालकर, सामाजिक समस्या, संगम प्रकाशन, नागपूर,
- १३) डॉ. सुधाकाळदाते : भारतीय सामाजिक समस्या,
- १४) अहुजा राम : भारतीय सामाजिक समस्याएँ, रावत पब्लिकेशन, नई दिल्ली
- १५) खैरनारडॉ. दिलीप : आधुनिक भारतीय सामाजिक समस्या, चिन्मय प्रकाशन, औरंगाबाद

**Semester System Syllabus
For
B.A. (Home Economics)
Semester wise Distribution of Marks**

Sr.No.	Class	Semester	Theory	Internal Assessment	Practical	Total
01	B.A.Part I	I Semester	50	20	30	100
02	B.A.Part I	II Semester	50	20	30	100
03	B.A.Part II	III Semester	50	20	30	100
04	B.A.Part II	IV Semester	50	20	30	100
05	B.A.Part III	V Semester	50	20	30	100
06	B.A.Part III	VI Semester	50	20	30	100
			300	120	180	600

Pattern of Examination

Theory: Examination of one theory paper of 50 Marks each and of Three Hours duration will be conducted at the end of each semester.

Practical : i) One Practical Examination of 30 marks of Three Hours duration in each semester will be conducted at the end of the same semester.
ii) Practical examination in all six semesters will be conducted by internal and external examiners appointed by the University.

Internal Assessment :

Internal assessment of 20 Marks will be done in following manner.

Head of the department will carryout internal assessment of the students on the basis of evaluation report from the concerned teacher and will be done at the end of each semester.

**Pattern of Question Paper
Examination: B.A. Sem-I to Sem-VI
Home Economics**

Time- 3 Hours

Full Marks -50

- Instructions:** i) All questions are compulsory
ii) All questions carry equal marks.
- Question No. 1: Long answer question with internal choice from any unit of 10 Marks.
Question No. 2: Long answer question with internal choice from any unit of 10 Marks.
Question No. 3: Four Short Answer questions with internal choice from any unit of 2½ Marks each (2½ x 4= 10 Marks)
Question No. 4: Four Short Answer questions with internal choice from any unit of 2½ Marks each (2½ x 4= 10 Marks)
Question No. 5: Ten objective questions without internal choice. (1 x 10 = 10 Marks)

- Note:** i) *Two long answer questions from any two unit.*
ii) *Two short answer question from any two of the remaining units.*
iii) *Objective question should be based on remaining unit.*

Rules and Regulations

- 1- There will be **five periods per week** for theory paper.
- 2- **For one practical** there will be **two periods per week per batch.**
- 3- The batch for practical will comprise of **Sixteen students.**
- 4- Next (second) batch will be started when the number of students exceed 19. (i.e. when the number of students exceed 20% of the approved batch of 16 Students.)
- 5- The minimum passing marks of theory paper will be 20 (i.e. 40%).
- 6- The minimum passing marks for practical will be 12 (i.e. 40%)
- 7- The minimum passing marks for internal assessment will be 8 (i.e. 40%)
- 8- Separate passing in theory, practical and internal assessment is necessary.
- 9- Marks will not be allotted to students if she is found absent for Practical and sessional.

Private Candidate :

- 1- With regard to the practical work the private candidate should be instructed to complete the practical prescribed in the college where she desires to appear for annual practical. The record book should be duly signed by the concerned head of the department.
- 2- Private candidate should write to the Principal concerned at the beginning of the session for permission to appear for the practical examination from the college.

Syllabi for B.A.Final

HOME ECONOMICS Semester-V HUMAN DEVELOPMENT (Implemented from the 2019-2020 Session)

Periods of Instruction Per Week-5

Practical: 2 Periods Per Batch

Total Marks :100
Theory: 5 Periods Theory : 50
Practical:30
Int.Ass. :20

- Objectives :**
- 1.To Introduce the Concept of Human Development
 2. To know the Factors affecting on Human Development
 3. To study the definitions and Meaning Concerning the Concepts

UNIT-I

- 1.1 Meaning, Definitions and Importance of Human Development
- 1.2 Stages of Development & Developmental Tasks.
- 1.3 Principles & Factors affecting on Growth & Development
- 1.4 Stages of Prenatal Development.

Unit-II

- 2.1 Male and Female Reproduction System.
- 2.2 Sex determination & Twins & Premature Baby-Care & Causes
- 2.3 Advantages of Breast Feeding & Artificial Feeding.
- 2.4 Child Diseases -Diarrhea, Jaundice, Diphtheria, Whooping Cough & Immunization

Unit-III

- 3.1 Motor Development : Meaning, Skills.
- 3.2 Causes of Delayed Motor Development.
- 3.3 Physical development : Changes and Factors affecting Physical Development.
- 3.4 Play- Importance, Types & Social Adjustment.

Unit-IV

- 4.1 Intellectual Development : Classification of Intelligence. Intelligence Quotient (IQ)
- 4.2 Factor Affecting on Intellectual Development
- 4.3 Speech Development : Stages of Speech Development & Factors affecting on Speech Development
- 4.4 Speech Defects

Unit-V

- 5.1 Social Development ; Companion & Playmates.
- 5.2 Emotional Development ó Characteristics, Types.
- 5.3 Moral Development ; Method& Factors for Moral Development
- 5.4 Discipline–Types & Merits & Demerits.

INTERNAL (Total 20 Marks)

1. Seminar on Related Topics	..	05
2. Case Study / Project (Group)	..	10
3. Educational tour/ visit (Report With Soft Copy)	..	05

CLASS WORK

1) Celebration of Breast Feeding Week	..	04
2) Preparation of Supplementary Food for Babyhood-Cerelac/Nachnisatwa/ Sajina ó Ghehuna / as per Nutrients. (Any One) (Group)	..	05
3) Poster Competition -Immunization Charts/ Female Foeticide / Personality / Intellectual.	..	05

PRACTICALS(30 Marks)

- A) Cooking ó Diet Planning and Preparations of Following Recipes
 - *For Pregnant Women ó Mix Veg Paratha, Veg Upma , Dalia & Veg Paneer
 - *For Lactating Women ó Gum Laddoo, VegDhirdi& Veg Cutlet &Halwa.
 - *Baby During Weaning Period ó Khir, Tomato Soup, Sooji, Soft Khichidi
- B) Preparation of Childrenø Play Materials Best Out of Waste

Distribution of Marks (30 Marks)

Preparation of Dish (Any One) With Presentation	- 08 Marks
1) Diet Plan (Any One)	- 05 Marks
2) Class Work/ RB	- 14 Marks
3) Viva	- 03 Marks

References :

- 1. Herlock Elizabeth - Child Development
- 2. Swaminathan M.B. and Bharghave, R.K. - Our Food.
- 3. Herlock Elizabeths - Chilgrowth and Development
- 4. Fontana Davind - Personality and Education
- 5. Gardner, D. Bruce - Development of early childhood
- ६. जूननकरकुसुम - मातृकला
- ७. चंद्रावसरनलिनी - मातृकला आणि बालसंगोपन पिंपळापुरे प्र.कं.नागपूर.
- ८. पुरम प्रभावती - शिवणकला, मॅजेस्टिक बुक स्टॉल, मुंबई-४
- ९. काले प्रेमला - बाल मानसशास्त्र
- १०. आपटे, सारंगधर आणि पाठक - आ
- ११. काले प्रभावती - लोकरीचे अभिनवविणकाम, नितीन प्रकाशन, पुणे-३०
- १२. भिसे, पद्मावती - सोपे शवणकाम मॅजेस्टिक बुक स्टॉल, मुंबई-४
- १३. योगेन्द्रजीत भाई - विकासात्मक मनोविज्ञान
- १४. जुननकरकुसुम - बालकाचाविकास व खेळणे
- १५. जुननकरकुसुम - मातृत्व आणि बालसंगोपन, पिंपळापुरेअॅन्ड कं.पब्लीशर्स, महाल,नागपूर-२
- १६. व-हाडपांडे नलिनी - बालविकास
- १७. कांडलकर,लिना - मानवविकास, विद्या प्रकाशन, रुईकर रोड, नागपूर-०२
- १८. गणोरकर, मीना - बालविकास आणि संबंधितक्षेत्र, म.वि.ग्रं.नि.पुणे-३०
- १९. विंग, क्लाईव्ह, चौधरी शंकरनाडकर्णी सुरेश, - एच आय व्ही आणिएडस, कुटुंब मार्गदर्शिका पॉप्युलर प्रकाशन मुंबई ० ३४

HOME ECONOMICS
Semester-VI
HUMAN DEVELOPMENT
(Implemented from the 2019-2020 Session)

Periods of Instruction Per Week-5

Theory: 5 Periods

Practical: 2 Periods Per Batch

Total Marks : 100

Theory : 50

Practical : 30

Int.Ass. :20

Objectives: This Course Will Enable The Students

1. To aware the Role of Heredity & Environment in Development
2. To State the Role of Parent & Teacher in Child Development.
3. To Introduce the Problems of Child .
4. To Inspire the Students for Skill Based Activity.

Unit-I

- 1.1 Heredity- Meaning & Laws
- 1.2 Role of Heredity- in Development of Child
- 1.3 Role of Environment- in Development of Child
- 1.4 Role of Family in Development of Child (Nuclear & Joint)

Unit-II

- 2.1 Personality: Types& Factors Affecting on Personality Development.
- 2.2 Defense Mechanism
- 2.3 Self Concept- Types (Positive & Negative) .
- 2.4 Role of Self concept in Personality Development.

Unit-III

- 3.1 Leadership- Types & Qualities.
- 3.2 Childhood Behavioral Problems: Lying, Stealing, Nail Biting, Thumb Sucking. (Causes and Remedies)
- 3.3 Need& Importance of Sex Education
- 3.4 Handicapped Child- Types & Education & Learning Difficulties.

Unit-IV

- 4.1 Adolescence- Developmental Task
- 4.2 Physical & Emotional Changes in Adolescence .
- 4.3 Adolescence Habits & its effect on their life (Jvenile Delinquency. Drugs. & Alcoholic)
- 4.4 Role of Parents & Teacher in Developing Positive Attitudes Towards Life.

Unit-V

- 5.1 Parenting- Importance & Types
- 5.2 Parent ó Child Relationship & Importance,
- 5.3 Methods of Child Rearing Practices.
- 5.4 Parental Challenge ó (Junk Food, Television Watching, Social Media)

INTERNAL (Total 20 Marks)

- 1) Seminar on related Topics - 10 Marks
- 2) Manage any Event Using Management Process - (Birthday / - 10 Marks
Tea Party/Any Program)(Report Writing with ICT- Soft Copy)

CLASS WORK

1. Guest Lecture on women Awareness.
2. Workshop on personality development.

PRACTICALS (30 Marks)

- A) Cooking ó Diet Planning and Preparation of following Recipies
 - Pre-school Children ó Sandwiches, Groundnut Chikki, MixLadoo, VegPuri.
 - School Going ó Cake, Appe and Chutney, Chirvante, Mix Dal Wada
 - Adolescence ó Dhokla, Pannertikki, Pav-Bhaji, & Halwa
- B) Drafting and Sticking Any One of the following
 - a) Kurti b) Nighty c) Gown d) Salwar

2.4 Political Science

Syllabi for B.A. Part-I
Semester-I
Subject : Political Science
(Implemented From 2017-2018 Session)
Indian Constitutional Provisions and Local Self Government

Marks : Theory – 80
In.Ass – 20

Unit-I

- i) Salient features of the Indian Constitution.
- ii) Preamble – Nature and Importance.
- iii) Fundamental Rights – Types and Importance.

Unit-II

- i) Directive Principles of State Policy – Nature and Importance
- ii) Fundamental Duties.
- iii) Methods to acquire Citizenship.

Unit-III

- i) President of India : Election Process, Powers and Function.
- ii) Vice President : Role and Function.
- iii) Prime Minister – Appointment, Role and Function.

Unit-IV

- i) Parliament : Lok Sabha and Rajya Sabha – Structure and Powers
- ii) Speaker of Lok Sabha - Powers & Function.

Unit-V

- i) Structure of Indian Judiciary. Types of Court, Characteristics of Indian Judiciary
- ii) Supreme Court of India – Structure, Powers and Function
- iii) High Court - Structure, Powers and Function.

Distribution of Internal Marks

- | | | |
|------------------------------------|-----|----------|
| i) Seminar | ... | 10 Marks |
| ii) News Papers Cutting Collection | ... | 10 Marks |

Reference Books :

1. D.D. Basu : “An introduction to the Constitution of India : New Delhi Prentice Hall, 1994
2. Joshi, G.N. : The Constitution of India
3. PyLee, M.V. : Indian Constitution
4. D.C. Gupta : Indian Government and Politics : Vikas Publication, Bombay.
5. प्रा.बी.टी. देशमुख : भारतीय संविधान
6. डॉ.प.ल. जोशी : भारतीय संविधान
7. प्रा.भ.श्रृंगारपुरे : भारतीय संविधान
8. प्रा.भ.ग.घांगरेकर : भारतीय राज्यघटना, स्वरूप आणि राजकारण
9. डॉ.भा.ल. भोळे : भारतीय राज्यव्यवस्था.
10. प्रा.राम मुठाळ : भारतीय राजकीय व्यवस्था, अंशुल प्रकाशन, नागपूर.
11. प्रा.रा.ज. लोटे : भारतीय शासन आणि राजकारण, पिंपळापूरे अँड कं. पब्लीशर्स.
12. प्रा. बी.टी. देशमुख : भारतीय संविधान व स्वातंत्र्य आंदोलन.
13. भारताचे शासन आणि राजकारण : प्रा.शे.हाशम, डॉ. जोगेंद्र गवई.
14. भारतीय शासन आणि राजकारण : प्रा.डॉ. अल्का देशमुख
15. भारतीय राजकारणांची संवैधानिक मिमांसा : ले. डॉ. वामन गवई.
16. भारतीय संविधान व शासन व्यवस्था : लेखक - डॉ. शांताराम चव्हाण
17. भारतीय संविधानात्मक तरतुदी आणि वास्तव : लेखक - डॉ. सुभाष गवई
18. भारतीय राज्यव्यवस्था : ले. डॉ. शांताराम चव्हाण व डॉ. सुभाष गवई, वेदमुद्रा प्रकाशन, अमरावती
19. महाराष्ट्रातील पंचायत राजची वाटचाल : ले. डॉ.सुभाष गवई, प्रशांत विघे व प्रा. सुनिल चकवे, वेदमुद्रा प्रकाशन, अमरावती.
20. भारतीय संविधानिक तरतुदी आणि : डॉ.शांताराम चव्हाण, वेदमुद्रा प्रकाशन, अमरावती स्थानिक स्वशासन

Semester-II (B.A.-I)

Indian Constitutional Provisions and Local Self Government

Theory : 80
Int.Ass.: 20

- Unit-I**
- Election Commission of India : Structure, Function and Powers.
 - Electoral Reform, Recognition of Political Parties.
 - Eligibility of Voter – Lok Sabha, Vidhan Sabha and Vidhan Parishad.

Unit-II State Executive

- Governor : Appointment, Powers and Role.
- Chief Minister : Appointment, Role and Function
- Council of Ministers : Formation, Role and Function

Unit-III State Legislature of Maharashtra :

- Legislative Assembly (Vidhan Sabha) – Structure, Powers and Function.
Speaker of Vidhan Sabha – Powers and Function
- Legislative Council (Vidhan Parishad) – Structure, Powers and Function

Unit-IV Local Self Government of Maharashtra :

- Types of Local Self Government (Urban and Rural)
- Municipal Corporation - Structure and Power
- Gram Panchayat – Structure and Function.
- Gram Sabha - Structure and Function.

Unit-V

- Women's Participations in Panchayati Raj of Maharashtra.
- Nagpur Pact for Sanyukta Maharashtra and its recommendations.
- Right to Information and its Importance

Distribution of Internal Marks

- | | | |
|------------------------------------|-----|----------|
| i) Seminar | ... | 10 Marks |
| ii) News Papers Cutting Collection | ... | 10 Marks |

Reference Books :

- D.D. Basu : "An introduction to the Constitution of India : New Delhi Prentice Hall, 1994
- Joshi, G.N. : The Constitution of India
- PyLee, M.V. : Indian Constitution
- D.C. Gupta : Indian Government and Politics : Vikas Publication, Bombay.
- प्रा.बी.टी. देशमुख : भारतीय संविधान
- डॉ.प.ल. जोशी : भारतीय संविधान
- प्रा.भ.श्रृंगारपुरे : भारतीय संविधान
- प्रा.भ.ग.घांगरेकर : भारतीय राज्यघटना, स्वरूप आणि राजकारण
- डॉ.भा.ल. भोळे : भारतीय राज्यव्यवस्था.
- प्रा.राम मुठाळ : भारतीय राजकीय व्यवस्था, अंशुल प्रकाशन, नागपूर.
- प्रा.रा.ज. लोटे : भारतीय शासन आणि राजकारण, पिंपळापूरे अँड कं. पब्लीशर्स.
- प्रा. बी.टी. देशमुख : भारतीय संविधान व स्वातंत्र्य आंदोलन.
- भारताचे शासन आणि राजकारण : प्रा.शे.हाशम, डॉ. जोगेंद्र गवई.
- भारतीय शासन आणि राजकारण : प्रा.डॉ. अल्का देशमुख
- भारतीय राजकारणांची संवैधानिक मिमांसा : ले. डॉ. वामन गवई.
- भारतीय संविधान व शासन व्यवस्था : ले. डॉ. शांताराम चव्हाण
- भारतीय संविधानात्मक तरतुदी आणि वास्तव : ले. डॉ. सुभाष गवई
- भारतीय राज्यव्यवस्था : ले. डॉ. शांताराम चव्हाण व डॉ. सुभाष गवई, वेदमुद्रा प्रकाशन, अमरावती
- महाराष्ट्रातील पंचायत राजची वाटचाल : लेखक डॉ.सुभाष गवई, प्रशांत विघे व प्रा. सुनिल चकवे, वेदमुद्रा प्रकाशन, अमरावती.
- भारतीय संविधानिक तरतुदी आणि स्थानिक स्वशासन : डॉ.शांताराम चव्हाण, वेदमुद्रा प्रकाशन, अमरावती

**Syllabi for B.A. Part-II
Semester-III
Subject : Political Science
(Implemented From 2018-2019 Session)**

Selected Constitutions and International Relations (U.K., U.S.A & China)

Marks : Theory – 80
In.Ass – 20

- Unit-I** i) Salient features of the Constitution of U.K.
ii) Historical Background of Crown.
iii) Powers of the Crown.
iv) Prime Minister – Appointment, Role and Function.
v) Cabinet – Structure and Function

Unit-II Parliamentary System of U.K.

- i) House of Lords – Composition, Powers and Functions (with Reference to Constitutional Reforms Act-2005)
ii) House of Commons – Composition, Powers and Functions
iii) Role of Opposition and Shadow Cabinet.

- Unit-III** i) Salient features of the Constitution of U.S.A.
ii) President – Election Process, Powers and Functions.
iii) Cabinet – Structure and Functions.
iv) Vice-President – Election Process, Powers and Functions.

Unit-IV Legislature of U.S.A. – Congress.

- i) Senate – Composition, Powers and Functions.
ii) House of Representative – Composition, Powers and Functions
iii) Supreme Court – Composition, Powers and Functions.

Unit-V South Asian Association for Regional Co-operation (SAARC)

- i) Objectives
ii) Structure
iii) Function.

Distribution of Internal Marks

- i) Group Discussion ... 10 Marks
ii) Project ... 10 Marks

Reference Books :

- | | |
|---|---|
| 1) Griffith | - The American government System. |
| 2) Norman Hill | - International Organization |
| 3) Khanna V.W. | - Comparative Study of Government and Politics. |
| 4) Show, Edgas | - Red China Today. |
| 5) कुळकर्णी गो.मा. | - निवडक संविधाने |
| 6) डॉ.शा.कृ.भोगले | - प्रमुख देशांची शासन पद्धती. |
| 7) शर्मा, ब्रिजमोहन | - प्रमुख देशांची शासन प्रणालीयों. |
| 8) पोतदार के.ए. | - चार निवडक राज्यघटना |
| 9) पाटील बी.बी. | - चार घटनांचा तौलनिक अभ्यास. |
| 10) प्र.ग.मुळे | - निवडक आधुनिक राजकीय व्यवस्था |
| 11) प्रा.तिजारे, प्रा.इंदापवार, प्रा.कानेटकर- | आधुनिक राजकीय व्यवस्था |
| 12) प्रा. रा.ज. लोटे | - आधुनिक राजकी. व्यवस्था. |
| 13) डॉ.टी.डी.मुदलीयार, डॉ.ए.एस.गाडे | - चीनची राजकीय व्यवस्था. |
| 14) डॉ.श्रीराम येरणकर | - तुलनात्मक शासन आणि राजकारण. |
| 15) प्रा. रा.ज. लोटे | - तुलनात्मक शासन व राजकारण. |

Semester-IV (B.A.-II)

Selected Constitutions and International Relations (U.K., U.S.A & China)

Marks : Theory – 80
In.Ass – 20

- Unit-I** i) Salient features of the Constitution of China (1982).
ii) National People Congress (NPC) – Composition, Powers and Functions.
iii) Standing Committee – Composition, Powers and Functions.

- Unit-II** i) President of China – Appointment, Role and Functions
ii) State Council of China – Composition, Powers and Functions
iii) Prime Minister of China - Appointment, Role and Functions.
iv) Role of Communist Party in China.

Unit-III United Nations Organization (UNO) :

- i) Charter
ii) Aims and Basic Principles.
iii) General Assembly of UNO – Composition and Functions.

- Unit-IV** i) Security - Council of UNO – Composition and Functions
ii) Secretary General – Appointment, Powers and Functions.
iii) International Court of Justice – Composition and Powers.

Unit-V Indo-China Relations – Major Issues :

- i) Tibet Dispute.
ii) Role of China about India in UNO.
iii) Impact of Chinese goods and market on Indian Economy.

Distribution of Internal Marks

- | | | |
|---------------------|-----|----------|
| i) Group Discussion | ... | 10 Marks |
| ii) Project | ... | 10 Marks |

Reference Books :

- | | |
|---|---|
| 1) Griffith | - The American government System. |
| 2) Norman Hill | - International Organization |
| 3) Khanna V.W. | - Comparative Study of Government and Politics. |
| 4) Show, Edgas | - Red China Today. |
| 5) कुळकर्णी गो.मा. | - निवडक संविधाने |
| 6) डॉ.शा.कृ.भोगले | - प्रमुख देशांची शासन पद्धती. |
| 7) शर्मा, ब्रिजमोहन | - प्रमुख देशांची शासन प्रणालीयाँ. |
| 8) पोतदार के.ए. | - चार निवडक राज्यघटना |
| 9) पाटील बी.बी. | - चार घटनांचा तौलनिक अभ्यास. |
| 10) प्र.ग.मुळे | - निवडक आधुनिक राजकीय व्यवस्था |
| 11) प्रा.तिजारे, प्रा.इंदापवार, प्रा.कानेटकर- | आधुनिक राजकीय व्यवस्था |
| 12) प्रा. रा.ज. लोटे | - आधुनिक राजकी. व्यवस्था. |
| 13) डॉ.टी.डी.मुदलीयार, डॉ.ए.एस.गाडे- | चीनची राजकीय व्यवस्था. |
| 14) डॉ.श्रीराम येरणकर | - तुलनात्मक शासन आणि राजकारण. |
| 15) प्रा. रा.ज. लोटे | - तुलनात्मक शासन व राजकारण. |

Appendix-H

**Syllabi for B.A. Final
Semester-V
Modern Concepts and Policy in Politics
(Implemented From 2019-2020 Session)**

Marks : Theory – 80
In.Ass - 20

Unit-I Leadership :

- a) Meaning of Leadership.
- b) Factors of Leadership.
- c) Role of Leadership

Unit-II Reservation :

- a) Meaning and Nature of Indian Reservation Policy.
- b) Reservation in Indian Parliament.
- c) Reservation and Politics in India.

Unit-III Nationalism :

- a) Meaning and Nature of Nationalism.
- b) Factors of Nationalism
- c) Present Status of Indian Nationalism.

Unit-IV Communalism :

- a) Meaning of Communalism.
- b) Role of Communalism in Indian Politics.
- c) Present Status of Communalism in India.

Unit-V Terrorism :

- a) Meaning and Definition of Terrorism.
- b) Kinds of Terrorism
- c) The Acts for Prevention of Terrorism in India.

Internal Assessment of Marks (20 Marks)

1) Group Discussion Related to Syllabus	...	10 Marks
2) Paper Presentation OR P.P.T Presentation Related to Syllabus	1	10 Marks

Books Recommended :

- 1) पवार, प्रकाश - भारतीय राजकारण आणि नेतृत्वाची वाटचाल, डायमंड पब्लिकेशन, नारायणपेठ, पुणे, जानेवारी-२०१४
- २) देशमुख, सुधाकर - राष्ट्र आणि राष्ट्रवाद (संकल्पना आणि विकास), पद्मगंधा प्रकाशन, एरंडवन पुणे, मार्च - २००९.
- ३) डॉ.पळशीकर, सुहास - समकालीन भारतीय राजकारण (काँग्रेस वर्चस्व ते हिंदू जमातवाद)
- ४) मोदि, महावीरप्रसाद व डॉ. सरोज मोदि - भारतीय राजनीती की प्रकृतियों (Trends of Indian Politics) कॉलेज बुक डेपो प्रकाशन, जयपूर, १९९९.
- ५) डॉ.जैन, पुखराज व डॉ. पडीयार, बी.एल. - भारतीय शासन एवं राजनीती, साहित्य भवन प्रकाशन, २०१२.
- ६) त्रिपाठी, विपीनकुमार - जनमुखी राष्ट्रवाद, पद्भाव मिशन प्रकाशन, नई दिल्ली, जूलाई-२००२.
- ७) डॉ.शर्मा, हरिओम - ग्रामिण नेतृत्व के उभरते परिमान, अर्जून पब्लिशिंग हाऊस, दरियागंज, नई, दिल्ली, प्रथम संस्करण - २००४.
- 8) डॉ. भोळे, भास्कर लक्ष्मण- भारतीय गणराज्याचे शासन आणि राजकारण, पिंपळापूरे अँड कं. पब्लिशर्स, नागपूर ,२००३.
- ९) आंबेडकर, बाबासाहेब - पाकिस्तान अर्थात भारताची फाळणी, रघुवंशी प्रकाशन, पुणे.
- १०) चव्हाण, प्रविण व दिवाकर, वैशाली - भारतीय राष्ट्रवाद : सिध्दांत आणि व्यवहार, प्रविण चव्हाण प्रकाशन, पुणे २०००.
- ११) काणे, पा.वा. - धर्मशास्त्राचा इतिहास, सारांश ग्रंथ, महाराष्ट्र साहित्य मंडळ, मुंबई.
- १२) डॉ.सुभाष गवई, डॉ. आर.एन. फुलारी, प्रा.विनय कोडापे - दहशतवादाचे विविध आयाम, वेदमुद्रा प्रकाशन, अमरावती.
- १३) डॉ. के.एच.वासनिक (संपादक) - आंतकवाद के विविध आयाम, गायत्री प्रकाशन, रिवा (मध्यप्रदेश), २६ जानेवारी, २०११.

- 14) Dr. Hegde, M.D. - Backward Class Movements in india, Jawahar Publishers, New Delhi First Edition- 2013.
15) Dr. Sharma, Harish - Future Tense in Naxal Fight, Aarti Prakashan, New Delhi, 2011.
16) Dr. Suryavanshi, P.H. - Recent Trends in Indian Politics, Gaurav Publication, Kanpur-2016.
17) Asirvadam, E. - Political Theory, The Uper India Pub. House, Lucknow, 1961.
18) Johari, J.C. - Principles of Modern Political Science, Sterling Pub., New Delhi-1989.
19) Dr. Shriram Yerankar - Secularism in India, Theory and Practice, Adhyayan Pub., Delhi. 2006.

**Syllabi for B.A. Final
Semester-VI
Concepts of Western and Indian Thinkers**

Marks : Theory ó 80
In.Ass - 20

Unit-I Concept of State :

- a) Aristotle - Classification of State.
b) M.K. Gandhi ó Concept of Ramrajya.

Unit-II Concept of Democracy :

- a) Walter Bagehot ó Concept of Democracy
b) Abraham Lincoln ó Concept of Democracy
c) Dr. B.R. Ambedkar ó Parliamentary Democracy.

Unit-III Concept of Nationalism :

- a) Niccolo Machiavelli ó Concept of Nationalism
b) Swami Vivekananda ó Concept of Nationalism
c) V.D. Sawarkar ó Concept of Nationalism

Unit-IV Socialism :

- a) Karl Marx - Concept of Socialism
b) Pt. Jawaharlal Nehru ó Concept of Socialism
c) Ram Manohar Lohiya ó Concept of Socialism

Unit-V Behaviouralism and Sovereignty :

- a) David Eston - Concept of Behaviouralism
b) Gabriel Almond - Concepts of Post Behaviouralism
c) John Austin - Concept of Sovereignty.

Internal Assessment of Marks (20 Marks)

- | | | |
|---|-----|----------|
| 1) Bibliography Related to Syllabus | ... | 10 Marks |
| 2) Home Assignment (Any One)
Related to Syllabus | í | 10 Marks |

Books Recommended :

- 1) Francis W. Coker - Recent Political Thought, The World Press Pvt. Ltd.
2) George H. Sabne - A History of Political theory, George G. Harrap & Company Ltd. London.
3) C.L. Wayper - Political Thought, S.T. Pausl, Honce Warwick Lane London, Ec,4.
4) V.D.Mahajan & R.R.Seth - Recent Political Thought, Premier Publishing Co. Delhi.
5) Radhey Sham Chourasia - History of Western Political Thought ó Volume I & II
6) Suda, J.P. - History of Political Thought.
7) श्रृंगारपुरे, प्रा. अरविंद - पाश्चिमात्य राजकीय विचारवंत, श्री मंगेश प्रकाशन, नागपूर

- ८) भोळे, डॉ.भास्कर लक्ष्मण - भारतीय आणि पाश्चिमात्य राजकीय विचार, पिंपळापूरे अॅन्ड के.पब्लिशर्स, नागपूर.
- ९) पाटील, वा.भा. - पाश्चिमात्य राजकीय विचारक, श्री मंगेश प्रकाशन, नागपूर
- १०) काणे, प्रा. प.सी., - काही प्रमुख राज्यशास्त्रज्ञ, विद्या प्रकाशन, नागपूर.
- ११) पाटील, वा.भा. - आधुनिक भारतीय राजकीय विचारवंत, प्रशांत पब्लिकेशन्स, जळगांव.
- १२) भोळे, डॉ.भास्कर लक्ष्मण - भारतीय आणि पाश्चिमात्य राजकीय विचार, पिंपळापूरे अॅन्ड के.पब्लिशर्स, नागपूर.
- १४) प्रा.घांगरेकर, सी.जी. - पाश्चात्य आणि भारतीय विचारवंत
- १५) डॉ. एस.एस सिंह - भारतीय राजकीय चिंतन का इतिहास
- १६) ओमप्रकाश गाबा - पाश्चात्य आणि भारतीय राजनीतिक चिंतन का इतिहास.
- 17) Prof. Danning - History of Political Thought.
- 18) Raghukul Tilak - Indian Political Thought
- १९) रघुनंदनलाल व-हाडपूरकर - पाश्चात्य आणि भारतीय विचारवंत
- २०) डॉ.जैन, पुखराज व डॉ. पडीयार, बी.एल. - पाश्चात्य राजनीतिक चिंतनका इतिहास
- २१) कृ.दि. बोराडकर - पाश्चिमात्य व भारतीय राजकीय विचारवंत.
- २२) येरणकर, श्रीराम आणि डॉ.देवगांवकर, एस.जी. - राजकीय सिध्दांत आणि राजकीय विचार, श्री साईनाथ प्रकाशन, नागपूर.
- 23) Verma, S.P. - Modern Political Theory, Vikas Pub., House, New Delhi – 1975.

2.5 Economics

Appendix-C

**Syllabus B.A. (Economics)
Paper Pattern for all Six Semester (Sem.I to Sem II)**

Theory : 80 Marks

Int.Ass. : 20 Marks

Instructions :

- i. All questions are compulsory
- ii. All question carry Equal Marks (Each question SIXTEEN Marks)

1. Student will have to solve TWO long question from any two of the five units. Each of these broad question carry SIXTEEN Marks. (Internal Choice is available) $2 \times 16 = 32$

2. Student will have to solve EIGHT Short Question in all choosing four question from each of the two units out of the total five. Each short question carries Four Marks (Internal Choice is available) $8 \times 4 = 32$

3. Student will have to solve EIGHT Multiple Choice Type Question from any one of the five units. Each of these questions carries Two Marks. $8 \times 2 = 16$

Total = 80

Internal Examination : 20 Marks

1. Viva- Voce - 10 Marks
2. Assignments - 10 Marks

**Syllabi Prescribed for B.A. Part-I (Economics)
Semester-I**

MICRO ECONOMICS

Credit : 04

Marks : 80
Int.Ass. : 20

Unit-I Introduction to Economics :

- 1.1 Definition of Economics : Adam Smith, Marshall and Robins.
- 1.2 Economic Laws : Definition, Types, Characteristics & Comparison between Economic Laws and Physical Laws.
- 1.3 Micro & Macro Economics : Meaning, Importance & Comparison

Unit-II Demand and Supply :

- 2.1 Demand : Definition and Law of Demand.
- 2.2 Supply : Definition and Law of Supply.
- 2.3 Elasticity of Demand : Definition and Types of Price Elasticity.
- 2.4 The Law of Diminishing Marginal Utility.

Unit-III Cost and Revenue Analysis :

- 3.1 Cost of Production : Meaning and kinds of Cost of Production - Monetary Cost, Total Cost, Average Cost, Marginal Cost.
- 3.2 Revenue : Meaning and kinds of Revenue – Total, Average and Marginal Revenue. Relation between Average Revenue and Marginal Revenue.
- 3.3 Internal and External Economies & Dis-economies.

Unit-IV Market Structure :

- 4.1 Perfect Competition Market : Definition and Characteristics.
- 4.2 Monopoly Market : Definition, Characteristics and Types, Price Discrimination under Monopoly and its Types.
- 4.3 Monopolistic Competition Market : Definition and Characteristics.
- 4.4 Oligopoly : Definition and Characteristics.

Unit-V Production Factors :

- 5.1 Definition and Characteristics of Production Factors : Land, Labour, Capital and Entrepreneur
- 5.2 Concept of Rent and The Ricardian Theory of Rent.
- 5.3 Concept of Wages, Interest and Profit. (Theories not applicable)

Books Recommended :

1. A.L. Meyers : Elements of Modern Economics
2. A.W. Stonier and D.C. Hugue : A Textbook of Economic Theory.
3. Awn and Das : Outline of Price Theory.
4. Alexander Cairncross : Introduction to Economics, 6th Edition.
5. G.L. Jain : Advance Micro Economic Theory, Mangal Deep Publications, Jaipur.
6. F. Ben ham : Economics
7. K.K. Dwertt : Modern Economic Theory.
8. M. Maria John Kennbedy : Advance Micro Economic Theory, Himalaya Publishing House, Delhi.
9. एम.एल.झिगन - व्यक्ति अर्थशास्त्र, वृंदा पब्लिकेशन, प्रा.लि. दिल्ली.
10. एल.एम.राज : अर्थशास्त्रके सिद्धांत, ज्ञानदा प्रकाशन, पटना.
11. एम.एल.सेठ माईक्रो अर्थशास्त्र, लक्ष्मी नारायण अग्रवाल एज्युकेशनल पब्लिकेशन्स, आग्रा.
12. प्रा. जिभकाटे बी.एल. : अर्थशास्त्राचे सिद्धांत, विश्व पब्लिशर्स अँड डिस्ट्रीब्युटर्स, नागपूर.
13. डॉ.जहागिरदार मुक्ता : आर्थिक सिद्धांत, विद्या प्रकाशन, नागपूर.
14. डॉ. माहोरे आर.वाय. : अर्थशास्त्राचे सिद्धांत, अंशुल पब्लिकेशन, नागपूर
15. डॉ.राजपूत करमसिंग आर. व डॉ. भांडवलकर आर.बी. : सूक्ष्म अर्थशास्त्र, अंशुल पब्लिकेशन, नागपूर
16. डॉ.तिवारी एच.आर. : सूक्ष्म अर्थशास्त्र, अद्वैत प्रकाशन, अकोला.
17. डॉ.तायडे पुष्पा : सूक्ष्म अर्थशास्त्र, मंगेश प्रकाशन, नागपूर.
18. डॉ.झामरे जी.एन.: सूक्ष्म अर्थशास्त्र, पिंपळापूरे अँड पब्लिशर्स, नागपूर.
19. डॉ.काकडे जे.एम. व डॉ.गव्हाळे आर.आर. - सूक्ष्म अर्थशास्त्र, श्री साईनाथ प्रकाशन, नागपूर.
20. डॉ.राजपूत करमसिंग - सूक्ष्म अर्थशास्त्र, श्री साईज्योती प्रकाशन, नागपूर.

B.A. Part-I

Semester-II

ECONOMY OF MAHARASHTRA

Credit : 04

Marks : 80
Int.Ass. : 20

Unit-I – Geographical and Economical Features of Maharashtra :

- 1.1 Historical Background of Maharashtra State.
- 1.2 Geographical Features of Maharashtra State.
- 1.3 Features of Economy of Maharashtra State.

Unit-II - Demographic Features of Maharashtra:

- 2.1 Population - Size and Growth Rates, Sex Ratio, Density of Population, Literacy..
- 2.2 Migration of Rural Population.
- 2.3 Urbanization in Maharashtra State.

Unit-III - Agriculture in Maharashtra:

- 3.1 Land Utilization and Cropping Pattern.
- 3.2 Productivity of Agriculture – Causes of Low Productivity.
- 3.3 Land Reforms, Green Revolution, Irrigation in Maharashtra.

Unit-IV - Industry and Infrastructure in Maharashtra:

- 4.1 Main Features of Industrial Development
- 4.2 Small Scale Industries and Agro-based Industries in Maharashtra.
- 4.3 Development of Railways, Roads, Water, Air Transport in Maharashtra.

Unit-V- Economy of Vidarbha Region:

- 5.1 Historical Background of Vidarbha Region.
- 5.2 Special Issues in Vidarbha Region –
 - Farmers' Suicides,
 - Irrigation Backlog of Vidarbha,
 - Tourism in Vidarbha.
- 5.3 Resources of Vidarbha Region-
 - Minerals
 - Energy
 - Forest

Books Recommended :

१. डॉ.र.पु.कुरुलकर - महाराष्ट्राची अर्थव्यवस्था, विद्या प्रकाशन, नागपूर, २००६
२. डॉ.आर.एस.सोळुंके - महाराष्ट्राची अर्थव्यवस्था, कैलास पब्लीकेशन, औरंगाबाद, १९९९.
३. डॉ. बी.डी.इंगळे - महाराष्ट्राची अर्थव्यवस्था, अरुणा प्रकाशन, लातूर, २००९.
४. डॉ.मंगला जंगले - महाराष्ट्राची अर्थव्यवस्था, प्रशांत पब्लीशर्स, जळगांव, २०१६.
५. डॉ.माधव बिरादार - महाराष्ट्राची अर्थव्यवस्था, विद्या बुक्स पब्लीशर्स, औरंगाबाद, २०१२.
६. नरेंद्र लांजेवार - शेतकऱ्यांच्या आत्महत्या, चिंतन आणि उपाय, सुमेरू प्रकाशन, डोंबिवली पूर्व, २००७.
७. महाराष्ट्राची आर्थिक पाहणी, २०१६-१७ - अर्थ व सांख्यिकी संचालनालय, नियोजन विभाग, महाराष्ट्र शासन, मुंबई.
८. डॉ.वैद्य बी.एन. - विदर्भाची अर्थव्यवस्था, मंगेश प्रकाशन, नागपूर.
९. डॉ.सौ.मृणालिनी फडणवीस- विदर्भ पर्यटन - सुवर्ण आशा, श्री रेणुका प्रकाशन, नागपूर, २०१४.
१०. डॉ.श्रीकांत तिडके व शिवाजी नागरे - विदर्भ : विविध दिशा आणि दर्शन, अथर्व प्रकाशन, धुळे, २०१३.
११. नरेंद्र लांजेवार (संपादक)- श्रीनिवास खांदेवाले – विदर्भ राज्य संकल्पना.
१२. तुकाराम जाधव - वार्षिक २०१७ महाराष्ट्र, युनिक अॅकॅडेमी, २०१६.
१३. डॉ.दि.व्यं. जहागिरदार - महाराष्ट्र : ५० वर्षातील आर्थिक विकासाचा घोटाळा, प्रकाशक-कौटिल्य ज्ञान प्रबोधिनी, सेंटर फॉर एकाॅनॉमिक्स अॅन्ड सोशल स्टडीज, अमरावती प्रकाशन वर्ष-२००९.
१४. डॉ.राजपूत करमसिंग - महाराष्ट्राची अर्थव्यवस्था, साईज्योती प्रकाशन, नागपूर.
१५. डॉ.संतोष तु. कुटे - पश्चिम विदर्भ- आर्थिक दृष्टिक्षेप, लक्ष्मी पब्लीकेशन, सोलापूर-२०१७.
१६. डॉ.संतोष तु. कुटे - कृषी व्युहरचना - संदर्भ अकोला जिल्हा, लक्ष्मी पब्लीकेशन, सोलापूर-२०१७.
१७. डॉ.विनोद म. गावंडे, डॉ.संतोष तु. कुटे - विदर्भाची अर्थव्यवस्था, लक्ष्मी पब्लीकेशन, सोलापूर-२०१७.
१८. डॉ.महादेव आ.रिठे, डॉ.संतोष तु. कुटे - महाराष्ट्राची अर्थव्यवस्था, प्रशांत पब्लीकेशन, जळगांव, २०१७.
19. Maharashtra Human Development Report 2012.
20. Population Census of Maharashtra-2011.

Syllabus B.A.
Subject : Economics

Paper Pattern for All Six Semester
(Semester-I to Semester-VI)

Theory : 80 Marks

Int.Ass. : 20 Marks

Instructions :

- i. All Questions are Compulsory
- ii. All question carry Equal Marks (Each Question SIXTEEN Marks)

1. Student will have to Solve TWO Long Question from Any Two of the Five Units. Each of these broad Question carry SIXTEEN Marks. (Internal Choice is Available)

2 x 16 = 32

2. Student will have to Solve EIGHT Short Question in all choosing four Question from Each of the Two units out of the Total Five. Each Short Question Carries Four Marks (Internal Choice is Available)

8 x 4 = 32

3. Student will have to Solve EIGHT Multiple Choice Type Question from Any One of the five units. Each of these Questions Carries Two Marks.

8 x 2 = 16

Total = 80

Internal Examination : 20 Marks

1. Viva- Voce - 10 Marks

2. Assignments - 10 Marks

B.A. Part-II
Semester-III
Macro Economics

(Implemented from 2018-2019 Session)

Credit : 04

Marks : 80
Int.Ass. : 20

Unit-I Introduction to Macro Economics :

- 1.1 Macro Economics : Definition, Importance and Limitations
- 1.2 National Income : Concept of National Income, GNP, NNP, GDP, NDP and Per-Capita Income
- 1.3 Methods and Difficulties in Measurement of National Income.

Unit-II Money and Value of Money :

- 2.1 Barter System : Meaning, and Difficulties in Barter System.
- 2.2 Money : Definition, Features and Functions
- 2.3 Value of Money : Meaning of Value of Money, Fishers Quantity Theory of Money

Unit-III Inflation and Deflation

- 3.1 Inflation : Definition, Causes and Effect
- 3.2 Deflation : Definition, Causes and Effect
- 3.3 Dis-inflation and Reflation : Definition and Instrument's

Unit-IV Output and Employment

- 4.1 Say's Law of Market
- 4.2 Consumption Function : Average and Marginal Propensity to Consume, Factors Influencing Consumption Function.
- 4.3 Investment Multiplier : Definition, Leakages (Limitations) and Importance, Types of Investment (Induced and Autonomous Investment)

Unit-V International Trade

- 5.1 International Trade : Meaning of Inter-Regional and International Trade, Difference between Inter- Regional and International Trade, Importance of the Study of International Economics.
- 5.2 Recardo's Comparative Cost Theory of International Trade
- 5.3 Advantages and Disadvantages of International Trade

Recommended Books :

- 1) Gupta S.B. (1994) Monetary Economics, S. Chand and Co. Delhi
- 2) Heller, H.R. (1968) International Monetary Economics Prentice Hill, India
- 3) झिंगन एम.एल. समष्टी अर्थशास्त्र, वृंदा पब्लिकेशन, प्रा. लि. दिल्ली
- 4) सेठ एम.एल. मॅक्रो इकॉनॉमिक्स, लक्ष्मी नारायण अग्रवाल एज्युकेशनल पब्लिकेशन, आग्रा
- 5) डॉ. माहोरे रा.य. समष्टी अर्थशास्त्र, हिमालय पब्लिकेशन, हाऊस, मुंबई
- 6) प्रा. नांदे, प्रा. महाजन, समग्रलक्षी अर्थशास्त्र, मंगेश प्रकाशन, नागपूर
- 7) डॉ. राजपूत करमसिंग, स्थुल अर्थशास्त्र, श्री साईनाथ प्रकाशन, नागपूर २०१६
- 8) डॉ. जी.एन. झामरे, स्थुल अर्थशास्त्र, पिंपलापुरे अॅण्ड कं. पब्लिशर्स, नागपूर

**B.A. Part-II
Semester-IV
Banking**

Credit : 04

Marks : 80
Int.Ass. : 20

Unit-I Commercial Bank

- 1.1 Bank : Meaning and Types
- 1.2 Commercial Bank : Definition and Functions
- 1.3 Credit Creation: Meaning, Process, Sources and Limitations of Credit Creation of Commercial Bank

Unit-II Central Bank

- 2.1 Central Bank: Definition and Functions Definition and Importance of
- 2.2 Credit Control : Meaning, Quantitative and Qualitative Measures of Credit Control.
- 2.3 Monetary Policy OF RBI : Objectives and Limitations.

Unit-III Co-operative Banks and NABARD

- 3.1 Co-operative Bank : Meaning and Types
- 3.2 Co-operative Bank : Objectives and Functions.
- 3.3 NABARD : Definition, Objectives and Functions
- 3.4 Co-operatives Societies : Objectives and Functions

Unit-IV IMF and World Bank

- 3.1 International Monetary Fund (IMF) : Objectives, Importance and Functions.
- 3.2 World Bank (IBRD) : Objectives, Importance and Functions.
- 3.3 World Trade Organization (WTO) : Objectives, Importance and Functions

Unit-V Recent Services in Banking Sector

- 5.1 ATM
- 5.2 Debit Card
- 5.3 Credit Card
- 5.4 E-Marketing
- 5.5 Cashless Transactions
- 5.6 Mobile Banking
- 5.7 E-Wallets
- 5.8 Core Banking
- 5.9 RTGS and NEFT

Recommended Books :

1. [Frederic S. Mishkin](#): The Economics of Money, Banking, and Financial Markets (Addison-Wesley Series in Economics) Seventh Edition, Published July 22nd 2005
2. [Dudley G. Lockett](#) Paperback: Money And Banking by, 3rd Edition, Published 1984 McGraw-Hill
3. K.N. Subrahmanya: Modern Banking In India, Deep & Deep Publications, New Delhi, Bank Finance For Rural Development: L K Naidu, Ashish publishing house. Delhi.
4. K.P.M.Sundharam: Money, Banking and International Trade, Sultan Chand & Sons, New Delhi.
5. Rita S.Swami : Fundamentals of Banking, Seth Publishers, Mumbai.
6. D. M. Mithani: Money, Banking, International Trade and Public Finance, Himalaya Publishing House, Mumbai.
7. S. L. N. Simha: Reform of the Indian Banking System, Orient Longman Ltd, New Delhi.
8. Desai Vasant: Central Banking and Economic Development.
9. Shekhar & Shekhar, Banking Theory and Practice, Vikas Publishing House, New Delhi.
10. Mahajan, Mukund (2000), Indian Banking System, Nirali Prakashan, Pune.
11. Khan, M.Y. (2011), Indian Financial System, Tata McGraw Hill, 7th Edition.
12. Deshmukh, D.N.(2014), Indian Banking System, Chandralok Prakashan, Kanpur
13. Bhole, L.M., Mahukud (2011), Financial Institutions and Markets, Tata McGraw Hill, 5th Edition.
14. Mishkin, F.S., Eakings, S.G. (2009), Financial Markets and Institutions, Pearson Education, 6th Edition.
15. Desai Vasant : Central Banking and Economic Development.
16. Deshmukh D.N. : Indian Banking System, Chandralok Prakashan Kanpur.
१७. पाटील के.के., सोंडगे एम.ए. (१९९१), एमपीएससी, बँकींग, कैलाश पब्लिकेशन, औरंगाबाद.
१८. जोशी, डांगे (१९९५), बँकींग, फडके प्रकाशन, कोल्हापूर.
१९. बोधनकर सुधीर, कानेटकर मेधा (२०००), भारतीय बँकींग प्रणाली, श्री साईनाथ प्रकाशन, नागपूर.
२०. महाजन मुकुंद : बँक व्यवसाय व वित्त पुरवठा, निराली, प्रकाशन, पुणे.
२१. बैरागी, के.पी., देसाई, रमेश : बँक व्यवसायाची मूलतत्त्वे, अथर्व प्रकाशन, पुणे.
२२. कोलते एस.एम. : भारतीय बँकींग प्रणाली, प्रशांत पब्लिकेशन, जळगांव.
२३. पाटील गंगाधर कायंदे, पैसा बँकींग आणि राजस्व, चैतन्य पब्लिकेशन, नाशिक.
२४. लांजेवार जगदीश : बँक व्यवसाय व वित्त पुरवठा, डायमंड पब्लिकेशन, पुणे.
२५. दातीर आर.के., : आधुनिक बँक व्यवसाय, निराली प्रकाशन, पुणे.
२६. मुलाणी एम.यु., : भारतातील आधुनिक वित्तीय व्यवस्था, सक्सेस पब्लिकेशन, पुणे.
२७. मुंजे, गोरे, बाळ देशपांडे : अर्थशास्त्र परिचय मुद्रा व अधिकोषण, विद्या प्रकाशन, नागपूर.
२८. प्रा. शरद कोलते : बँकींग तत्त्वे व भारतीय बँका, विद्या प्रकाशन, नागपूर.
२९. डॉ. राजपूत करमसिंग, स्थूल अर्थशास्त्र, श्री साईनाथ प्रकाशन, नागपूर.

Appendix-C

Paper Pattern for All Six Semester (Semester-I to Semester-VI) (Economics)

Theory : 80 Marks
Int.Ass. : 20 Marks

Instructions :

- i. All Questions are Compulsory
 - ii. All question carry Equal Marks (Each Question SIXTEEN Marks)
1. Student will have to Solve TWO Long Question from Any Two of the Five Units. Each of these broad Question carry SIXTEEN Marks. (Internal Choice is Available)
 2. Student will have to Solve EIGHT Short Question in all choosing four Question from Each of the Two units out of the Total Five. Each Short Question Carries Four Marks (Internal Choice is Available)
 3. Student will have to Solve EIGHT Multiple Choice Type Question from Any One of the five units. Each of these Questions Carries Two Marks.

$$2 \times 16 = 32$$

$$8 \times 4 = 32$$

$$8 \times 2 = 16$$

$$\text{Total} = 80$$

Internal Examination : 20 Marks

1. Viva- Voce - 10 Marks
2. Assignments - 10 Marks

B.A. Final Semester-V Indian Economy (To be Implemented from 2019-2020 Session)

Credit : 04

Marks : 80
Int.Ass. : 20

Unit-I Indian Economy and Planning :

- 1.1 Basic Feature of Indian Economy
- 1.2 Economic Planning : Objectives, Types, Objective of 11th & 12th Five Year Plan.
- 1.3 New Economic Reforms :- Liberalization, Privatization, Globalization

Unit-II Agriculture :

- 2.1. Importance of Agriculture in Indian Economy :
- 2.2 Productivity :- Causes of Low Productivity and Remedies to increase productivity
- 2.3 Agricultural Marketing : Difficulties and Remedies of Agricultural Marketing
- 2.4 Subdivision and Fragmentation : Concept, Causes & Remedies.

Unit-III Industrial :

- 3.1 Industrial Policy of 1991
- 3.2 Small Scale Industry : Importance, Problem, Remedies
- 3.3 Industrial Disputes : Causes, Remedies
- 3.4 Trade Union : Characteristics and Functions

Unit – IV External Sector an Important Areas of Concern :

- 4.1 India's Foreign Trade :- Direction & Composition
- 4.2 Poverty :- Causes, Remedies
- 4.3 Unemployment : Causes, Types, Remedies
- 4.4 Self Help Group

Unit-V Environment and Pollution :

- 5.1 Environment : Meaning and Types
- 5.2 Natural Resources : Land, water, Forest, Causes and Remedies of Air, Water and Land Pollution
- 5.3 Global Warming.

Books Recommended :

- 1) Rudra Datta & K.P.M. Sundaram Indian Economy, S. Chand & company New Delhi
- 2) Five Year Plan, Govt. of India
- 3) Jalan Bimal :- Indian Economic Policy, preparing for the 21st Century, Viking, New Delhi
- 4) डॉ. ग.ना. झामरे : भारतीय अर्थव्यवस्था व विकास व पर्यावरण, अर्थशास्त्र, पिंपळापुरे प्रकाशन, नागपूर
- 5) मिश्र पुरी : भारतीय अर्थव्यवस्था, हिमालय पब्लिकेशन, दिल्ली
- 6) रुद्र दत्त व सुंदरम् के.पी.एम. : भारतीय अर्थव्यवस्था एस.चंद पब्लिकेशन, दिल्ली
- 7) डॉ. गव्हाळे राजेंद्र आर., : आर्थिक विकास व पर्यावरणाचे अर्थशास्त्र ज्योतीचंद्र पब्लिकेशन, लातूर.

**B.A. Final
Semester-VI
Demography**

Credit : 04

Marks : 80
Int.Ass. : 20

Unit - I Introduction

- 1.1 Meaning and Scope of Demography
- 1.2 Theories of Population- Malthus, Optimum Population Theory, Theory of Demographic Transition
- 1.3 Population Explosion

Unit - II Fertility and Mortality

- 2.1 Importance of Study of Fertility
- 2.2 Factors affecting Fertility- Socio-Economic Factors, Economic Status, Health, Education, Nutrition, Caste, Religion, Race, Region, Rural-Urban and Status of Husband & Wife.
- 2.3 Mortality- Death Rate, Birth and Infant Mortality Rate, Factors for Decline in Mortality in Recent Years.

Unit - III Migration of Population

- 3.1 Concept and Types- Temporary, Internal and International Migration
- 3.2 Effects of Migration on Population
- 3.3 Factors affecting Migration.

Unit - IV Urbanization of Population

- 4.1 Meaning and Causes of Urbanization
- 4.2 Pattern of Urbanization in India
- 4.3 Effects & Remedies to Urbanization

Unit - V Population and Development

- 5.1 Population and Human Development Issues
- 5.2 Evaluation of Population Policy in India- The shift in Policy from Population Control to Family Welfare to Women Empowerment
- 5.3 Family Planning Strategic and their Outcomes, the New Population Policy, (2000)

Recommended Books :

- 1) श्रीवास्तव एस.एम. (१९९९) 'जनांकिकीय अध्ययन के प्रारूप', हिमालया पब्लिशिंग हाऊस, मुंबई.
- 2) विजयकुमार तिवारी (१९९७) भारत का जनसंख्या भूगोल भाग-२ हिमालया पब्लिशिंग हाऊस, मुंबई.
- 3) डी.एस.बघेल (२००५) जनांकिकी - विवेक प्रकाशन, दिल्ली.
- 4) Agrawal S.N. (1972) - 'Indian Population Problems', Tata McGraw Hill Com., Bombay.
- 5) Boque D.J. (1971) - Principles of Demography, John Willey New York.
- 6) Srinivasan K. and A. Shariff (1998) - India, Towards Population and Demographic Goals, Oxford University Press, New Delhi.
- 7) Srinivasan K. (1998) - Basic Demographic Techniques and Applications, Sage, Publication, New Delhi.
