

Yuvashakti Samajik and shaikshanik Sanstha, Amravati
Yuvashakti Arts and Science College, Amravati
INTERNAL QUALITY ASSURANCE CELL (IQAC)

CROSS-CUTTING ISSUES

Department of Geography

2017-18

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

CLASS & SEM	PAPER	UNIT	ISSUES	TOPIC
B.A.- I Sem.-I	Theory	Unit-I : Introduction of geography	ENVIRONME NT ETHICS	The Nature of Geography - Meaning and Scope, Branches of Geography .
		Unit-II: The Solar System	ENVIRONME NT ETHICS	General Concept of Earth's origin: Lunar & Solar Eclipse. Latitude & Longitude.
		Unit-III: Movements of the Earth	ENVIRONME NT ETHICS	Orogenic and Eporgenic Movements of the Earth.
		Unit-IV: Interior of the Earth	ENVIRONME NT ETHICS	Major Land- Forms.
		Unit-V: Earthquake, volcanoes	ENVIRONME NT ETHICS	Rotation and Revolution effects, Earthquake, volcanoes

Faculty

IQAC (Co-Ordinator)



P. Malhotra
Principal
Yuvashakti Arts & Science College
Amravati

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Department of Geography

2017-18

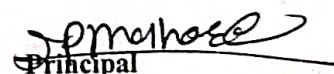
Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

CLASS & SEM	PAPER	UNIT	ISSUES	TOPIC
B.A.-I Sem. -II	Theory	Unit-I: Rocks	ENVIRONMENT ETHICS	Weathering, Meaning, Causes & Types.
		Unit-II: The Work of Stream	ENVIRONMENT ETHICS	Landscape Associated with River.
		Unit-III : The Work of Glacier	ENVIRONMENT ETHICS	Landscape associated with Glacier.
		Unit-IV: The work of Erosion, Winds	ENVIRONMENT ETHICS	Landscape associated with Erosion Landscape Associated with Under Ground Water.
		Unit-V: Application of Geomorphology to Human Activities	ENVIRONMENT ETHICS	Settlements Transport. Environmental hazards:

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CLASS & SEM	PAPER	UNIT	ISSUES	TOPIC
B.A-II (Annual Pattern)	Theory	Unit-I : Weather and climate,	ENVIRONMENT ETHICS	Elements of weathers, Composition and structure of the atmosphere. Isolation, periodic and local winds.
		Unit-II : Atmospheric moisture	ENVIRONMENT ETHICS	Hydrological cycle; world Pattern of rain fall; cyclones, thunderstorms and tornadoes.
		Unit-III : Koppen's classification and Climate types	ENVIRONMENT ETHICS	Characteristics and related plant and animal. Role of climate in human life; Atmospheric pollution and global warming.
		Unit-IV: Relevance of oceanography in earth and atmospheric Sciences	ENVIRONMENT ETHICS	Surface configuration of the ocean. Oceanic trenches. Distribution of salinity
		Unit-V: Circulation of oceanic water	ENVIRONMENT ETHICS	Waves, tides and currents; currents Oceans. Marine deposits and coral reefs, coastal environment.

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CLASS & SEM	PAPER	UNIT	ISSUES	TOPIC
B.A.- III (Annual Pattern)	Theory	Unit I: Physical Division of India	ENVIRONMENT ETHICS	India Land of Diversities & Unity within diversities,
		Unit II: Soil Types of India,	ENVIRONMENT ETHICS	Major Crops in India
		Unit III : Spatial distribution of Population	ENVIRONMENT ETHICS	Population Explosion, density Urbanization & Sex ratio
		Unit IV : Distribution & Conservation of Minerals	ENVIRONMENT ETHICS	Power Resource and Mineral Industrial regions of India.
		Unit V: Maharashtra in the context of India Physical division	ENVIRONMENT ETHICS	Drainage System rainfall, Soil Types, Vegetation, Crops Minerals Industries, Distribution of Population and density, Migration. Geographical Tourist Places.

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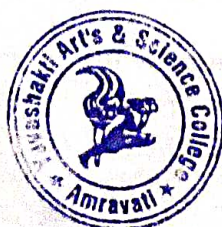
2018-19

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CLASS & SEM	PAPER	UNIT	ISSUES	TOPIC
B.A. - I Sem.-I	Theory	Unit-I : Introduction of geography	ENVIRONME NT ETHICS	The Nature of Geography - Meaning and Scope, Branches of Geography .
		Unit-II: The Solar System	ENVIRONME NT ETHICS	General Concept of Earth's origin: Lunar & Solar Eclipse. Latitude & Longitude.
		Unit-III: Movements of the Earth	ENVIRONME NT ETHICS	Orogenic and Eporgenic Movements of the Earth.
		Unit-IV: Interior of the Earth	ENVIRONME NT ETHICS	Major Land- Forms.
		Unit-V: Earthquake, volcanoes	ENVIRONME NT ETHICS	Rotation and Revolution effects, Earthquake, volcanoes

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		Unit-III : The Work of Glacier	ENVIRONMENT ETHICS	Landscape associated with Glacier.
		Unit-IV: The work of Erosion, Winds	ENVIRONMENT ETHICS	Landscape associated with Erosion Landscape Associated with Under Ground Water.
		Unit-V: Application of Geomorphology to Human Activities	ENVIRONMENT ETHICS	Settlements Transport. Environmental hazards:

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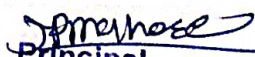
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CLASS & SEM	PAPER	UNIT	ISSUES	TOPIC
B.A. - II Sem. III	Theory	Unit-I: Introduction of climatology	ENVIRONMENT ETHICS	Weather and Climate, Elements of Weathers
		Unit-II: Structure of the atmosphere	ENVIRONMENT ETHICS	Composition and Structure of the Atmosphere
		Unit-III : Atmospheric Pressure Winds	ENVIRONMENT ETHICS	Distribution of pressure wind planetary, periodic and local
		Unit-IV: Forms of climate	ENVIRONMENT ETHICS	Atmospheric moisture: Forms of precipitation, Types of Rainfall.
		Unit-V: Environmental issues	ENVIRONMENT ETHICS	Atmospheric pollution and Global warming: general causes, consequences and measures of control

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CLASS & SEM	PAPER	UNIT	ISSUES	TOPIC
B.A.-II Sem.- IV	Theory	Unit I: Introduction of oceanography	ENVIRONMENT ETHICS	Definition, Nature & Scope of Oceanography. Significance of Ocean.
		Unit-II: Surface configuration of the ocean floor	ENVIRONMENT ETHICS	Continental shelf, slope, Abyssal Plain, mid-oceanic and oceanic trenches. Relief of Atlantic, Pacific and Indian Oceans.
		Unit-III: Ocean temperature and salinity	ENVIRONMENT ETHICS	Distribution of salinity of Oceans and Seas
		Unit-IV: Circulation of oceanic water	ENVIRONMENT ETHICS	Currents of the Atlantic, Pacific and Indian Oceans.
		Unit-V: Marine deposits	ENVIRONMENT ETHICS	Marine deposits and coral reefs

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		Unit III : Spatial distribution of Population	ENVIRONMENT ETHICS	Population Explosion, density Urbanization & Sex ratio
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B.A.-111 Sem.- V	Theory	Unit- I: Introduction of India	ENVIRONMENT ETHICS	India a Land of Diversities & Unity within diversities, Physical Division of India.
		Unit-II : Physical Division of India.	ENVIRONMENT ETHICS	Drainage System, Climate- Monsoon, Western Disturbance, Nonwestern.
		Unit-III: agriculture of India	ENVIRONMENT ETHICS	Soil Types. Major Crops
		Unit-IV : population of India	ENVIRONMENT ETHICS	Spatial distribution, density, Explosion, Urbanization& Sex ratio.
		Unit-V: economical factors of India	ENVIRONMENT ETHICS	Distribution & Conservation of Minerals Industrial regions

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B.A. -III Sem.- VI	Theory	Unit-I: introduction of Maharashtra	ENVIRONMENT ETHICS	Maharashtra in the context of India, Physical division, Drainage System
		Unit-II: climate setting of Maharashtra	ENVIRONMENT ETHICS	Climate: Distribution of rainfall, Soil Types, Vegetation
		Unit-III: agriculture in Maharashtra	ENVIRONMENT ETHICS	Major Crops Wheat, Rice, Jawar, Cotton & Sugarcane.
		Unit-IV: Maharashtra Minerals	ENVIRONMENT ETHICS	Manganese, Bauxite and iron ore, Power Resource : Coal, Hydro-electricity, Major Cotton Industry & Sugar Industry.
		Unit-V: Population of Maharashtra	ENVIRONMENT ETHICS	Distribution density, Migration. Geographical Tourist Places.

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YUVASHAKTI ART'S AND SCIENCE COLLEGE, AMRAVATI

DEPARTMENT – BOTANY

SESSION 2017 – 2018

TOPIC NAME

WORKSHOP ON

MAKING OF ECO-FRIENDLY NATURAL HOLI COLOUR

Chief Guest

Dr. Nilima Mahore

Name Of Participating Teacher :

1. Ms.P.R. Patil
2. Ms. Mohini Ingole
3. Ms. Sujata Bhagadkar

4. Ms. Vaishnavi Bondre
5. Mr. Chandel
6. Ms. Priya Khandekar



(Signature)

Sign Of Principle

Principal

**Yuvashakti Arts & Science College
Amravati**

Holi. The Indian festival of colours, originated in the celebration of the arrival of spring. In the month of March and April, trees burst out into blossoms and colours fill out horizon.

Holi, where people of all casts and creeds get together and colour each other joyfully and vibrantly.

But, many of the colours commonly used to play Holi are extremely toxic lead to, problems ranging from skin allergies to cancer, eye irritation to blindness and much more.

So, the best alternative to this is use of Natural Colour instead of chemical one.

Based on this, we, conduct one day Natural colour making workshop in our college with our students and staff to develop awareness about using natural colour. For this we use natural ingredients such as turmeric, spinach, grapes, beet, cabbage, titha, rice flour etc and prepare beautiful natural colours.

Use of natural colour feel your skin fresh and healthy. Natural colour are so safe that even child can use it. Natural colours are eco-friendly and brings us towards nature.

We are very happy to said that our workshop is very successful, and everyone well understand the importance of using natural colour

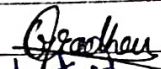
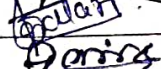
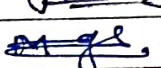
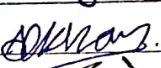
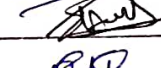
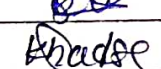
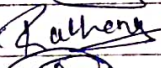


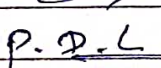
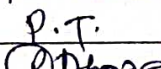
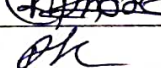


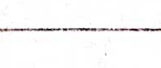


Yuvashakti Arts & Science college, Amt. College Code No.174

Subject :- Botany

Class :- AM

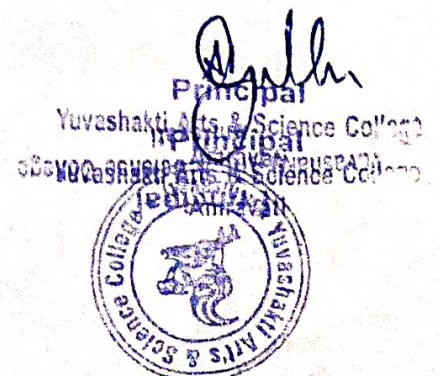
Activity :- Workshop - Natural Holi colour making workshop

Date:-

Sr.No.	Name of Candidates	Signature
1	Gunpriya R. Adhau	
2	Kausthya D. Salame	
3	Tushar Rahul Jannik	
4	Mahesh. Anil. Ingle	
5	AHFAZ YUNUS KHAN	
6	Swara, vasudeo Ambhore	
7	Kanish. S. Chaudhan	
8	Komal V. Khadse	
9	Rachana Wankhade	
10	Shivani Mohane	
11	Komal Khodse	
12	Tejaswini Sable	
13	Priyanka Lauhalu.	
14	Prityul P. Tanleppale	
15	Rushikesh G. Dhore	
16	Ahira Rai Chaudhary	
17	Rushikesh Thakure	
18		
19		
20		

Signature of Teacher P.R. Patil
Name of Teacher :- P.R. Patil
Date :- 16/03/22

Head of Department
Yuvashakti Arts & Science
College, Amravati



D R E A M S



Syllabus Prescribed for 2022-23-Year UG Programme
Programme: B.A. (Political-Science)
Semester 1

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
Political-Science	Indian Political System	65

COs

At the end of the course the students should be able to:

- 1: Understand and explain the significance of Indian constitution as the fundamental law of the land.
- 2: To know the making process of the constitution and salient features of Indian constitution.
- 3: Exercise the fundamental rights in proper sense at the same time identifies his responsibilities in national building.
- 4: Analyze the Indian Political System, the powers and functions of the Union, State Government in detail.
- 5: Critically analyzing the important institutions of Indian Union. The Executive: President, Vice-President, Prime Minister, Council of Ministers, State Executive: Governor, Chief Minister, Council of Ministers, The Legislature: Rajya Sabha, Lok Sabha, State Legislature, The Judiciary: Supreme Court and High Court: Composition and jurisdictions.
- 6: To make conscious of the social, cultural, economic and political environment that affects politics in India, at the national as well as regional levels.

Unit	Content
Unit I	1. Making of Indian Constitution. Constituent Assembly and its work. 2. Salient features of Indian Constitution 3. Preamble: Text and significance (periods:15)
Unit II	1. Fundamental Rights and its Importance 2. Fundamental Duties. 3. Directive Principles of State Policy- (periods:14)
Unit III	1. President of India: Election process, Qualifications, Emoluments, Term, Powers & Functions, Constitutional position. 2. Vice-President: Election, Qualifications, Powers and functions. (periods:13)
Unit IV	1. Prime Minister: Appointment, Powers & functions, Role. Council of Ministers. 2. Council of Ministers: Formation, Role and function (periods:11)
Unit V	1. Parliament: Rajya Sabha and Lok Sabha- Composition, Powers & functions 2. Judiciary: Supreme Court- Structure, Jurisdiction, Independent judiciary (periods:12)
Unit VI if applicable	_____(periods)
*SEM	
COs: 1: To improve knowledge and communication and presentation skill of the students. 2: To encourage the students to explore new areas relevant to the topic.	
**Activities	1. 1 Seminar -Marks -10 2. Assignment - Marks -10 (periods)

Course Material/Learning Resources



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Programme: B.A. (Political-Science)

Semester II

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
Political Science	Indian Political System	65

COs

At the end of the course the students should be able to:

- 1: Understand and explain the significance of Election Commission of India
- 2: know the powers and role of Governor, Chief Minister & Council of Minister
- 3: Understand structure & powers of Legislative Assembly and Legislative Council
- 4: Explain the structure and jurisdiction of High Court and District Court
- 5: Know the Composition Function and Powers of Grampanchayat & Gram Sabha

Unit	Content
Unit I	1 Election Commission:- Composition , powers and function 2 Election code of conducts (periods:-10)
Unit II	i) Governor: Appointment, Powers and Role ii) Chief Minister: Appointment, Role and functions. iii) Council of Ministers: Formation, Role and function (periods:14)
Unit III	1. State Legislature: a) Legislative Assembly b.) Legislative Council- Composition, Powers & functions 2. Power and duties of Speaker and Deputy Speaker (periods:13)
Unit IV	1.Judiciary: High Court- Structure and Jurisdiction 2 District court: Structure and Jurisdiction (periods:13)
Unit V	Local Self Institution: 1.Grampanchayat:- composition, function and powers 2. Gramsabha:- composition powers and importance (periods:15)
Unit VI if applicable	(periods)
*SEM	
COs: 1: To understand actual working of Local Self Institution 2: To realize the importance of team work	
**Activities	1. 1 Group visit to Local self-institutions and submission of report -20 Marks

Course Material/Learning Resources

Text books:

1. टोपेपुणे ,महाराष्ट्रविद्यापीठग्रंथनिर्मितीमंडळ ,भारतीयराज्यघटना :.के.टी .,१९८३
2. दिवेकर ,एम.के .:भारतीयसंविधान ,मुकुंद प्रकाशन ठाणे ,२०११
3. देवगावकरएस .,जी२०१२, साईनाथप्रकाशननागपूर ,भारतीयराजकीयव्यवस्था :.
4. देवगावकरएस.,जी .येरणकरसाईनाथप्रकाशन ,भारतीयराजकीयव्यवस्था :श्रीराम ,,नागपूर २००१,
5. देशमुख २००० ,नागपूर ,पिंपळापुर्वा प्रकाशन ,भारतीय संविधान :.टी.बी ,
6. फडकेआ तेंव्हा आणि :संसद :.दिवाकर प्रकाशन ,मुंबई ,२००६,



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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**
- Salient features of the Constitution of U.K.
 - Historical Background of Crown.
 - Powers of the Crown
 - Prime Minister - Appointment, Role and Function
 - Cabinet - Structure and Function

Unit-II Parliamentary System of U.K

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

Unit-III i) Salient features of the Constitution of U.S.A.

- President - Election Process, Powers and Functions.
- Cabinet - Structure and Functions.
- Vice-President - Election Process, Powers and Functions.

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

- Senate - Composition, Powers and Functions.
- House of Representative - Composition, Powers and Functions
- Supreme Court - Composition, Powers and Functions.

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

- Objectives
- Structure
- 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 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. |



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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) कुलकर्णी 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. |




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Unit-II Variables :

- 2.1 Meaning and Types
- 2.2 Research Problems : Sources and Types, Criteria of a Good Problem
- 2.3 Hypothesis : Meaning and Types
- 2.4 Sampling : Meaning and Types
- 2.5 Methods of Data Collection : Experimental, Interview, Survey and Case Study

Unit-III Introduction to Psychological Testing :

- 3.1 Definitions, Types, Characteristics and uses of Psychological Testing
- 3.2 Reliability : Definition and Types
- 3.3 Validity : Definition and Types
- 3.4 Norms : Definition and Types.

Unit-IV Statistics : Critical Ratio 't' (Small Sample) and Chi Square

Practicals (Conduct Five) (30 Marks)

1. Expectation from Life Partner Scale
2. Happiness Scale
3. Marriage Attitude Scale
4. Locus of Control
5. Type A, B Behavioural Pattern Scale
6. Deva's Social Adjustment Inventory
7. Interest Inventory
8. Normal Probability Curve

20 Marks of Internal Assessment (As shown in above Instructions)

Recommended Books :

1. Psychological Testing and Assessment - Ronals Jay Cohen, Mark E. Swerdlik 6th Edition, McGraw Hill, New Delhi - 2005..
2. Psychological Testing - Anne Anastasi, Susana Urbina, Pearson Education, 2005.
3. Psychological Testing - Frank S. Freeman 3rd Edition, Oxford and IBH Publishing, New Delhi - 1965.
4. Psychological Testing - Kaplan and Saccuzzo, Wadsworth Thompson, 2001.
5. Research Methods - McBurney, Thompson, Indian Edition, 2000
6. Essentials of Research Methods in Psychology - Shaugnessy, Tata McGraw Hill, 2009.
७. मानसशास्त्रीय चाचण्या - अनिता पाटील, डायमंड पब्लिकेशन, पुणे - २००५
८. मानसशास्त्रीय संशोधन पद्धती - डॉ.बी.एन.बर्वे, विद्या प्रकाशन, नागपूर - २०१०
९. मनोमापन - डॉ.बी.एन.बर्वे, एच.जे. नरके, विद्या प्रकाशन, नागपूर - २००५.

**Syllabi for B.A. Final
Semester-V**

**Modern Concepts and Policy in Politics
(Implemented From 2019-2020 Session)**

Appendix-H

Marks : Theory - 80
In.Ass - 20

Unit-I Leadership :

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



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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 | ... | 10 Marks |
- Related to Syllabus

Books Recommended :

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




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- 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) Asirvadani, E. - Political Theory, The Upper 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 – 80
In.Ass - 20

Unit-I Concept of State :

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

Unit-II Concept of Democracy :

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

Unit-III Concept of Nationalism :

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

Unit-IV Socialism :

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

Unit-V Behaviouralism and Sovereignty :

- a) David Easton - 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 | ... | 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. Wayer | - Political Thought, S.T. Paul, 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 – Volume I & II |
| 6) Suda, J.P. | - History of Political Thought. |
| ७) श्रीगारपुरे, प्रा. अरविंद | - पाश्चात्य राजकीय विचारवंत, श्री मंगेश प्रकाशन, नागपुर |



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- ८) भोळे, डॉ.भास्कर लक्ष्मण - भारतीय आणि पाश्चिमात्य राजकीय विचार, पिंपळापूरे अँड के.पब्लीशर्स, 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 पब्लीकेशन्स, जळगांव.
- १२) भोळे, डॉ.भास्कर लक्ष्मण - भारतीय आणि पाश्चिमात्य राजकीय विचार, पिंपळापूरे अँड के.पब्लीशर्स, 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 - पाश्चात्य राजनीतिक चिंतनका इतिहास
डॉ. पडीयार, बी.एल.
- २१) कृ.दि. बोराडकर - पाश्चिमात्य व भारतीय राजकीय विचारवंत.
- २२) येरणकर, श्रीराम आणि - राजकीय सिद्धांत आणि राजकीय विचार, श्री साईनाथ प्रकाशन, नागपूर.
डॉ. देवगांवकर, एस.जी.
- 23) Verma, S.P. - Modern Political Theory, Vikas Pub., House, New Delhi - 1975.

Appendix-I

Syllabi of B.A. Final Semester-V

Subject: Statistics

(To be implemented from 2019-2020 Session)

The examination in Statistics in BA Part III Semester V and Semester VI will comprise of one theory paper each, Internal Assessment and practical examination. Theory paper will be of Three Hours duration and carry 50Marks. The Internal Assessment will be of 20 marks and practical examination will be of 30marks.

The Distribution of Marks will be as follows:

- Theory Examination : Multiple Choice Questions : 10 Marks
Descriptive Type Questions : 40 Marks.
Total : 50 Marks.
- Practical Examination : Practical record duly certified : 05Marks.
Practical problems : 20 Marks.
Viva voce : 05 Marks.
Total : 30 Marks.
- Internal Assessment : Assignments
(Home assignments/Field Survey) : 10 Marks.
Viva Voce : 10 Marks.
Total : 20 Marks.

The syllabus of statistics in Semester V and Semester VI is based on the basis of five theory periods per week and six practical periods (2 Practical of 3 Periods each) per batch per week.



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Part B

Programme : B.A. (Philosophy)

Semester I

Code of the Course/Subject	Title of the Course/Subject	Total Number of Periods
PHI101	Introduction to Philosophy	90

COs

1. To create insight about Nature of Philosophy.
2. To develop understanding of Branches of Philosophy.
3. To identify various isms in Philosophy.
4. To develop insight into Orthodox and Heterodox Schools and Contemporary Indian Philosophers.
5. To Evaluate Ancient, Medieval and Modern Western Philosophy and Contemporary Western Philosophers.

Unit	Content
Unit I	Nature of Philosophy A) Etymological Definition of Tatvadnyan, Darshan and Philosophy. B) Definitions of Philosophy. C) Subject matter of Philosophy. D) Utility of Philosophy. (Periods 20)
Unit II	Branches of Philosophy A) Metaphysics B) Epistemology. C) Ethics D) Logic. (Periods 17)
Unit III	Basic Schools in Philosophy A) Idealism and Materialism. B) Monism and Pluralism. C) Rationalism and Empiricism. (Periods 16)
Unit IV	Introduction of Indian Philosophy A) Veda and Upanishada. B) Vedic Darshan. C) Non-Vedic Darshan. D) Contemporary Indian Philosophers - Mahatma Fule, Mahatma Gandhi, Dr. Babasaheb Ambedkar, Swami Vivekanand. (Periods 20)



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Simple
Empowerment
Movement. Unit 6

Credit

Unit V	Introduction of Western Philosophy A) Greek Philosophy. B) Medieval Philosophy. C) Modern Philosophy. D) Contemporary Western Philosophers- Bertrand Russell, George Edward Moore, A. J. Ayer, Gilbert Ryle. (Periods 17)
*SEM	Contribution of Contemporary Indian Philosophers to Social Reforms. A) Women Empowerment, upliftment of Farmers B) Non-Cooperation Movement, Concept of Trusteeship C) Annihilation of Caste, Liberty, Equality and Fraternity D) Sovereign religion, Karma yoga
COs:	1. To Analyze and Evaluate the contribution of various Contemporary Indian Social Philosophers 2. To Criticize and Justify the Theories of various Contemporary Indian Social Philosophers
**Activities	1. Survey of Impact of Social Reforms 2. Deliver the speech on Contemporary Indian Social Philosophers in various Schools 3. Essay Competition 4. Quiz Contest etc.

Reference Books:

1. दर्शनशास्त्र की रूपरेखा - प्रो. राजेंद्र प्रसाद मोतीलाल बनारसीदास, पुणे, 2006, 81.208.3207.8.
2. भारतीय दर्शन की मुलगांभी समस्याएं, नारायण शास्त्री द्रविड सागर विश्वविद्यालय सागर 2009, 81.88289.34.5.
3. दर्शन का परिचय. राजेंद्र स्वरूप भटनागर, राजस्थान हिंदी ग्रंथ अकादमी जयपुर 1993.
4. पाश्चात्य दर्शन के संप्रदाय डॉ. शोभा निगम, मोतीलाल बनारसीदास, पुणे, 2009, 978.81.208.3455.2.
5. तत्वज्ञान म्हणजे काय : माटिन हायडेगगर अनु. एन. व्ही. जोशी, कॉन्टिनेन्टल प्रकाशन पुणे, 2003.
6. भारतीय तत्वज्ञान डॉ. वेद प्रकाश डोणगावकर, मैत्री प्रकाशन, लातूर, 2020, 978.93.84810.50.4
7. पाश्चात्य तत्वज्ञानाची रूप रेखा, माधवी कवि व ई. आर. मठवाले, क्रिएटिव्ह प्रकाशन नांदेड, 2021, 978.93.80745.51.0
8. तत्वज्ञान स्वरूप व समस्या - पी. डी. चौधरी, विद्या प्रकाशन नागपुर, 2008
9. पाश्चात्या तत्वज्ञानाचा इतिहास खंड 1 ते 3. डॉ. ग. ना. जोशी, कॉन्टिनेन्टल प्रकाशन पुणे.
10. जाती व्यवस्थेचे निर्मूलन डॉ. बी. आर. आंबेडकर अनु. प्रा. प्रकाश सिरसाट, दुसरी आवृत्ती 2018
11. Outlines of Indian Philosophy - M. Hiriyanna, Kavyalya Publishers, Delhi, 1994. 81-208-1099-6
12. Introduction an Indian Philosophy- Schidanand Murti

**Activities	1. Assignment on Environmental Ethics 2. Deliver the speech on Importance of Values in Human Life 3. Essay Competition 4. Quiz Contest Survey on Bioethical problems etc.
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(Periods 20)

Reference Books:

1. नीतिशास्त्र की रूपरेखा - अशोक कुमार वर्मा, गोतीलाल बनारसीदास, पुणे, 2009, ISBN 978.81.208.2957.2
2. भारतीय नीतिशास्त्र - डॉ. जयप्रकाश शास्त्री, अशोक प्रकाशन, अजमेर, 2011
3. नीतिमिमंसा - पी. डी. चौधरी, विद्या प्रकाशन नागपुर, 3th 1998
4. नीतिमीमांसा - श्रीनिवास दिक्षित, महाराष्ट्र भांडार, कोहापुर, 2002
5. नीतिशास्त्र - डॉ. सुनील साळुंके मैत्री प्रकाशन लातूर, दुसरी आवृत्ती 2011, ISBN 978.81.920783.7.3
6. आदर्श नीतिशास्त्र - डॉ. सु. वा. बखते, विद्या प्रकाशन, नागपुर, 1995
7. भारतीय तत्त्वज्ञान - डॉ. वेद प्रकाश डोणगावकर, मैत्री प्रकाशन लातूर, 2020, ISBN 978.93.84810.50.4
8. भारतीय नारित्तक दर्शनाचे नीती शास्त्र - डॉ. सुनीलदत्त गवरे, कुमुद पब्लिकेशन, जळगाव, 2020, ISBN 978.93.88834.50.6.
9. महात्मा बसवेश्वरांचे तत्त्वज्ञान वेद प्रकाश डोणगावकर, स्वाती प्रकाशन, पुणे, 2010 ISBN 81.90181.4.0
10. उपयोजित नीतिशास्त्र - माधवी कवि, विद्या प्रकाशन नागपुर, 2012,
11. अनुप्रयुक्त नीतिशास्त्र -एम. पी. चौरसिया, गोतीलाल बनारसीदास, दिल्ली 2006.
- A Companion to Applied Ethics- R. G. Frey and C. H. Wellman
12. Practical Ethics- Peter Singer, Cambridge University Press, Third Edition- 1946, 978-0-521-70768-8
13. A Manual of Ethics- Jadunath Sinha,
14. A Manual of Ethics- Mackenzie, Hinds & Noble Publishers, New York,
15. Moral Lexicon- R. K. Gupta, ICPR, Delhi, 1996
16. The Conquest of Happiness- Bertrand Russell, George Allen & Unwin Ltd, London, 1933
17. Reading in Applied Ethics- Kanchan Saxena, Ashirwad Publication, Lucknow, 2006



Principal
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Amravati

Programme : B.A. (Philosophy)

Semester II

Code of the Course/Subject	Title of the Course/Subject	Total Number of Periods)
PHI201	Human Life and Ethics	90

COs

5. To introduce the Nature of Ethics as a branch of Philosophy.
6. To develop understanding of various concepts in Human Moral System.
7. To develop insight and application of Buddhist, Jains', Patanjali's, Plato's and Kant's ethics in every human being for betterment of life.
8. To Apply Moral Teaching of Indian Saints in day to day life.
9. To know an ultimate goal of human life according to Hedonic thoughts various Indian and Western Moral Thinkers.

Unit	Content	
Unit I	Nature of Ethics E) Meaning and Definition of Ethics F) Branches of Ethics (Applied Ethics, Meta Ethics) G) Need and Importance of Ethics	
Unit II	The Moral System in Human Life A) Purushartha B) Ashrama C) Karmayog D) Category Imperative	(Periods 17)
Unit III	Moral Values in our daily Life A) Veda's Concept of Rna B) Jaina's Mahavrate C) Buddha's Ashtang Marg D) Patanjali's Niyam E) Plato's Concept of Virtue F) Kant's Concept of Good will	(Periods 17)
Unit IV	Moral Teaching of Saint's A) Mahatma Basveshwar - Sadachar B) Savta Maharaj - Swakarm C) Gadge Maharaj - Dash-sutri D) Gulabrao Maharaj - Niti Vichar	(Periods 20)
Unit V	The Place of Happiness in Human Life (Hedonism) A) Charvaka B) Aristipus C) Epicurus D) Jeremy Bentham E) J. S. Mill	(Periods 17)
*SEM	Applied Ethics F) Environmental Ethics F) Medical Ethics G) Administrative Ethics H) Bioethics	(Periods 19)
COs:	1. To Analyze and Evaluate the Applied Ethics 2. To Criticize and Justify the Significance of Applied Ethics.	

A Post-graduate student can apply for Ph. D. Course and can start the research.

A degree in philosophy helps to students to prepare for a career in law.

The students of Philosophy can also opt as a main subject for competitive examinations like UPSC and MPSC for the civil services at the State and Central level, and after successfully cracks the UPSC, MPSC examinations, work as a IAS, IPS, IFS and other officers.

Enter the field of business administration with specializations in areas such as Human Resource Development.

There is also a possibility of taking up professions such as journalism, creative writing, etc.

Student's extensive analytical skills are very valuable and beneficial to finance-related occupations.

As the study of philosophy carries a large emphasis on writing and communication skills, students who major in philosophy commonly work as writers in a field such as journalism. Their skills in investigation and composition are particularly valued in this career field.

Philosophy graduates can also work as advisors, lobbyists, and specialists in HR.




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Sant Gadge Baba University Amravati
Syllabus Prescribed under Choice based Credit System 2022-23
Faculty : Humanity
Programme : B.A. (Philosophy)

Part A

PSOs:

1. To develop the insight among students about Fundamentals of Indian and Western Philosophy
2. To create an interest among the students about various Indian and Western Schools
3. To classify between Indian and Western Philosophical thoughts.
4. To inculcate and develop Ethical Values among the students
5. To apply the various Moral Values in day to day life
6. To analyze the moral thoughts of Contemporary Indian Saints.

Employability potential of the Programme :

Introduction

Philosophy is an interesting and diverse subject that offers you an interesting insight into the various facets of the social and political behavior of humankind. The study of philosophy provides answers to some of the world's most existential questions revolving around right and wrong, truth and falsehood, the meaning of life, and the nature of human beings and the reality in which they live. Philosophy encourages critical and systematic thinking, explores core issues of intellectual tradition, and offers great preparation for many professional occupations. Studying philosophy can enrich personal and professional life by teaching how to acquire, analyze and use knowledge.

After completing the VC and PG course, students acquire some skills. Their skills are as follows:

1. Intellectual skills
 - Critical
 - Analytical
 - Synthesizing
 - Problem-solving
2. Communication skills
 - Written
 - Oral
3. Organizational skills
 - Working independently
 - Taking initiative
 - Time management
4. Inter-personal skills
 - The ability to work with others
 - The ability to motivate others
 - Flexibility
 - Adaptability
5. Research skills

A career in philosophy offers a number of opportunities to graduates and postgraduates.

There are various career options after MA Philosophy in various specializations of philosophy like in Metaphysics, Epistemology, Ethics, Moral Philosophy, Logic Aesthetics, etc. Some of the employment areas where students can get placed are:

Business
Community
Social and Personal Service
Diplomacy
Publishing House
Retail Sector
Insurance Industry
Finance Departments etc.

After completing post-graduation in Philosophy, candidate should apply for NET, SET exam and after crack the same, he or she can start his/her career in teaching. Candidate should get an opportunity to work as a Assistant Professor in Universities and various colleges.

Draft Syllabi of B.A.Part-II
Semester-III
Paper : History of Ancient Greek Philosophy
(Implemented from 2018-2019 Session)

Time : 3 Hrs.

Total Marks : 100

Theory : 80

Int.Ass. : 20

INSTRUCTIONS : Each Paper will Carry 100 Marks, 80 Marks for Theory Paper having 3 Hrs. duration and 20 Marks for Internal Assessment. Minimum 32 Marks in Theory and 08 Marks in Internal Assessment for Passing. There shall be separate passing in Theory Paper and Internal Assessment. There shall be Long Answer Type Questions on Any Two Units, Short Answer Type Questions on Any Two Units and Multiple Choice Question on any One Unit out of Five Units. Internal Assessment Marks shall be allotted on the basis of Home Assignment, Classroom Work, Seminar, Paper Writing & Presentation, Participation in Activities, Viva-Voce and an observation of the subject teacher.

Unit-I Ancient Greek Philosophy : Nature & Subject

- 1) The Cosmological Period
- 2) The Anthropological Period
- 3) The Systematic Period

Unit-II Monist Philosopher :

- 1) Milesian School : (I) Thales (II) Anaximander (III) Anaximanes
- 2) Zenophanes
- 3) Eleatic School : (I) Parmenides (II) Zeno
- 4) Heraclitus

Unit-III Pluralist Philosopher :

- 1) Empedocles 2) Anaxagoras 3) Pythagoras 4) Lucipus & Democritus

Unit-IV Sophist : Protagoras -- Man is the measure of things.

Socrates : Moral Vies.

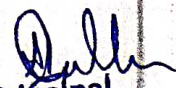
Plato : Theory of Idea, Concept of Soul.

Unit-V Aristotle : Refutation of Plato's Idea Causation, Ten Categories.

Books Recommended :

- | | |
|---|--|
| 1) The Story of Philosophy | - Will Durant, Pocket Books, New York. |
| 2) A History of Philosophy | - Frank Thilly, Central Publishing House, Allahabad. |
| 3) प्रमुख पाश्चात्य दार्शनिक | - डॉ.डी.आर जाटव, राजस्थान हिंदी ग्रंथ अँकेडेमी, जयपुर. |
| 4) पाश्चात्य दर्शन | - डॉ.ममता मिश्रा, कला प्रकाशन, वाराणसी. |
| 5) ग्रीक एवं मध्ययुगीन दर्शन | - डॉ.नरेशप्रसाद तिवारी, मोतीलाल बनारसीदास. |
| 6) पाश्चात्य दर्शन की रूपरेखा | - डॉ.बद्रीनाथ सिंह, आशा प्रकाशन, वाराणसी. |
| 7) पाश्चात्य दर्शन का इतिहास, भाग-१ | - डॉ.दयाकृष्ण, राजस्थान हिंदी ग्रंथ अँकेडेमी, जयपुर. |
| 8) पाश्चात्य तत्वज्ञानाचा इतिहास, खंड-१ | - डॉ.ग.ना.जोशी, कॉन्टीनेन्टल प्रकाशन, पुणे. |
| 9) ग्रीक तत्वज्ञान (थेलेस ते सॉक्रेटीस) | - गो.वी.सुळपुळे, चित्रशाळा प्रकाशन, पुणे. |
| 10) पाश्चात्य तत्वज्ञानाची रूपरेखा | - प्रा.माधवी की, स्वाती प्रकाशन |
| 11) सूर्य पाहिलेली माणस | - अरुंधती खेडकर, श्रीविद्या प्रकाशन |
| 12) Plato : चरित्र व तत्वज्ञान | - प्रा. गो.वी.सुळपुळे, चित्रशाळा प्रकाशन, पुणे. |
| 13) पाश्चात्य तत्वज्ञानाचा इतिहास | - डॉ. राजेसाहेब मारडकर, डॅटसन्स प्रकाशन, नागपूर. |




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Semester-IV

Paper : History of Modern Western Philosophy
(Implemented from 2018-2019 Session)

Time : 3 Hrs.

Total Marks : 100

Theory : 80

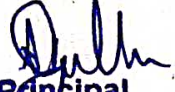
Int.Ass. : 20

- Unit-I 1) Rene Descartes (1596-1650) : Father of Modern Philosophy, The Method of Doubt, Cogito Ergo Sum, Existence of God, Body & Mind.
2) Benedict Spinoza (1632-1677) : Substance, Characters of Substance.
- Unit-II 3) G.W. Leibnitz (1646-1716) : Monadism, Monads, Characters of Monads, Kinds of Monads, Pre-established Harmony.
- Unit-III 4) John Locke (1632-1704) : Concept of Matter, Concept Abstract General Idea.
5) George Berkeley (1685-1753) : Refutation of Locke's Concept of Matter, Esse ist Percipi.
- Unit-IV 6) David Hume (1711-1776) : Scepticism, Concept of Soul, Theory of Causation.
7) G.W.F. Hegel (1770-1831) : Dialectical Method.
- Unit-V 8) Immanuel Kant (1724-1804) : Analytic and Synthetic Judgement, Possibility of Synthetic a-priori Judgement, Noumena, Phenomena, Concept of God.

Books Recommended :

- 1) History of Modern of Philosophy – Richard Flanckenberg, Progressive Publishers, Culcutta.
- 2) A History of Philosophy – Frank Thilly, Central Publishing House, Allahabad.
- 3) पाश्चात्य दर्शन का इतिहास, भाग-२ – डॉ. दयाकृष्ण, राजस्थान हिंदी ग्रंथ अँकेडेमी. जयपूर.
- 4) प्रमुख पाश्चात्य दार्शनिक – डॉ. डी.आर जाटव, राजस्थान हिंदी ग्रंथ अँकेडेमी. जयपूर.
- 5) पाश्चात्य दर्शन – डॉ. ममता मिश्रा, कला प्रकाशन, वाराणसी.
- 6) पाश्चात्य दर्शन की रूपरेखा – डॉ. ब्रद्रीनाथ सिंह, आशा प्रकाशन, वाराणसी.
- 7) पाश्चात्य तत्वज्ञानाची रूपरेखा – प्रा. माधवी की, स्वाती प्रकाशन
- 8) पाश्चात्य तत्वज्ञानाचा इतिहास, खंड-२ व ३ – डॉ. ग. ना. जोशी, कॉन्टीनेन्टल प्रकाशन, पुणे.
- 9) पाश्चात्य तत्वज्ञानाचा इतिहास – डॉ. राजेसाहेब मारडकर, डॅटसन्स प्रकाशन, नागपूर.




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Syllabi of B.A. Final
Semester-V
Paper : (A) Indian Philosophy (Part-I)
(Implemented from 2019-2020 Session)

Time : 3 Hrs.

Total Marks : 100
Theory : 80
Int.Ass. : 20

INSTRUCTIONS : Each Paper will Carry 100 Marks, 80 Marks for Theory Paper having 3 Hrs. duration and 20 Marks for Internal Assessment. Minimum 32 Marks in Theory and 08 Marks in Internal Assessment for Passing. There shall be separate passing in Theory Paper and Internal Assessment. There shall be Long Answer Type Questions on Any Two Units, Short Answer Type Questions on Any Two Units and Multiple Choice Question on any One Unit out of Five Units. Internal Assessment Marks shall be allotted on the basis of Home Assignment, Classroom Work, Seminar, Paper Writing & Presentation, Participation in Activities, Viva-Voce and an observation of the subject teacher.

- Unit-I** Nature of Indian Philosophy, Plurality, as well as Common Concerns.
- Unit-II** 1) Vedic Philosophy – Theory of Karma, Concept of Varna and Concept of Ashram, Concept of Yadnya (Sacrifice).
2) Upnishadic Philosophy : Concept of Brahma, Concept of Jivatma, Concept of Liberation.
- Unit-III** Charvaka Darshan – Materialism, Theory of Knowledge, Naturalism, Refutation of God & Self, Hedonism.
- Unit-IV** Jain Darshan – Classification of Knowledge, Syadvada, Nayvada, Jiva & Ajiva, Bondage & Liberation.
- Unit-V** Boudhda Darshan - Four Nouble Truths, Theory of Causation, Momentariness, Theory of no self, Nihilism of Madhyamika, Vidnyavada of Yogachar, Bahyanumeyavada of Sautrantika, Bahyapratyakshavad of Vaisheshika.

Books Recommended :

- | | |
|------------------------------------|----------------------|
| 1) Introduction of Philosophy | - Datta & Chatterjee |
| 2) Outline of Indian Philosophy | - M. Hiriyanna |
| 3) भारतीय दर्शन के मुलतत्व | - रामनाथ शर्मा. |
| 4) भारतीय तत्वज्ञान | - श्री.ह.दक्षित |
| 5) भारतीय तत्वज्ञानाचा इतिहास | - पी.डी.चौधरी |
| 6) भारतीय तत्वज्ञानाचा बृहद इतिहास | - श्री.ग.ना.जोशी |
| 7) चार्वाकाचा देहात्मवाद | - डॉ.बी.एम.ठाकरे |

Semester-V
Paper : (B) Logic (Part-I)

Time : 3 Hrs.

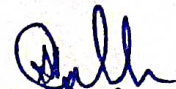
Total Marks : 100
Theory : 80
Int.Ass. : 20

- Unit-I** Introduction : Definition of Logic, Subject Matter of Logic, Definition of Argument, Kinds of Argument.
- Unit-II** Truth and Validity, Relation between Truth and Validity, Formal Truth and Material Truth, Sentence, Kinds of Sentences.
- Unit-III** Proposition : Simple and Compound Propositions, Truth Functional and Non-Truth Functional Propositions, Truth Values.
- Unit-IV** Terms : Kinds of Terms, Words and Name, Proposition and Judgement.
- Unit-V** Truth Tables : Classification of Propositions, Modern Classifications of Judgement, Laws of Thoughts.

Books Recommended :

- | | |
|--------------------------|------------------|
| 1) Introduction to Logic | - I.M. Copi |
| 2) Introduction to Logic | - I.M. Copi |
| 3) तर्कशास्त्र | - कृष्णकर व काळे |
| 4) तर्कशास्त्र | - देशपांडे व देव |




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- 5) तर्कशास्त्र - बी.के. सावंगीकर
6) तर्कशास्त्र - डॉ.बी.एम.ठाकरे
7) आकारिक तर्कशास्त्र - मे.पु. रेगे

Semester-VI
Paper : (C) Indian Philosophy (Part-II)

Time : 3 Hrs.

Total Marks : 100
Theory : 80
Int.Ass. : 20

- Unit-I** Nyaya Darshan – Theory of Pramanas.
Unit-II Vaisheshika Darshan (a) Sapta Padartha(b) Atomism.
Unit-III Samkhya Darshan and Yoga Darshan : A Stane Yoga.
(a) Satkaryavada (b) Nature of Prakriti and Purusa (c) Theory of Evolution
Unit-IV Mimansa Darshan : Nature of Knowledge, Sources of Knowledge, Theories of Error (ख्यातीवाद)
Unit-V Sankara Vedant : (a) Concept of Brahman and Atman (b) Theory of Causation (Vivartvada) (c) Concept of Maya (d) Nature of Moksa.

Books Recommended :

- 1) Introduction of Philosophy - Datta & Chatterjee
2) Outline of Indian Philosophy - M. Hiriyanna
3) भारतीय दर्शन के मुलतत्व - रामनाथ शर्मा.
4) भारतीय दर्शन की रूपरेखा - डॉ.बद्रीनाथ सिंह, आशा प्रकाशन, वाराणसी
5) भारतीय तत्वज्ञान - श्री.ह.दक्षित, फडके प्रकाशन, कोल्हापूर.
6) भारतीय तत्वज्ञानाचा इतिहास - पी.डी.चौधरी, मंगेश प्रकाशन, नागपूर.
7) भारतीय तत्वज्ञानाचा बृहद इतिहास - श्री.ग.ना.जोशी Continental प्रकाशन, पुणे.

Semester-VI
Paper : (D) Logic (Part-II)

Time : 3 Hrs.

Total Marks : 100
Theory : 80
Int.Ass. : 20

- Unit-I** Logical Connectives – not', 'and', 'or', 'if-then', 'if and only if then. 'Use of Symbols, Symbolization.
Unit-II Statement Forms – Tautologous, Contradictory, Contingent.
Decision Procedure – Truth Table Method, Shorter Truth Table Technique.
Unit-III Formal Proof of Validity, Nineteen Rules : Rules of Inference and Rules of Replacement, The Rules of Conditional Proof, the Rule of Indirect Proof..
Unit-IV Inference : Kinds of Inference, Definition & Description, Rules of Definition, Kinds of Definition, Logical Fallacies.
Unit-V Induction – Definition of Induction, Principle of Induction, Nature of Induction, Problem of Induction, Postulates of Induction, Whether it can be proved or not ? Mill's Method of Experimental Enquiry.

Books Recommended :

- 1) Symbolic Logic - I.M. Copi
2) Introduction to Logic - I.M. Copi
3) Formal Logic - Richard Joffery
4) Method of Logic - W.V.O. Quine
5) आकारिक तर्कशास्त्र - मे.पु. रेगे
6) तर्कशास्त्र - बी.के. सावंगीकर
7) तर्कशास्त्र - डॉ.बी.एम.ठाकरे
8) तर्कशास्त्र प्रवेश - हुल्याळकर व काळे



[Signature]
Principal
Yashwantrao Chavan Pratishthan
Amravati

B.A. Part-II, 2014

Prospectus No. 2014112

संत गाडगे बाबा अमरावती विद्यापीठ
SANT GADGE BABA AMRAVATI UNIVERSITY

वाङ्मय विद्याशाखा व समाजविज्ञान विद्याशाखा
FACULTY OF ARTS (Including Fine Art)
& FACULTY OF SOCIAL SCIENCES

अभ्यासक्रमिका

वाङ्मय स्नातक भाग-२ परीक्षा, २०१४
(त्रिवर्षीय अभ्यासक्रम)

PROSPECTUS

OF

The Examination for the Degree of
Bachelor of Arts Part-II, 2014
(Three Year Degree Course)

Continued for B.A. Part-II-2018 Exam



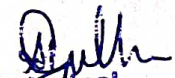
Continued for B.A. Part-II, 2017 Exam
(Along with Notification No. 46/2016)

Continued for B.A. Part-II 2016 Exam.
(Along with Notification No. 73/2015) 2013
11/2015 & Direction No. 23/2014

Continued for B.A. Part-II 2015 Exam
(Along with Notification No. 63/2014,
Direction No. 11/2014 & 2/2014)

Price Rs. 25 /-




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Amravati

17) Desai. Vasant, Entrepreneurship Development, Himalaya Publishing house 1991. Vol-I, II and III.

१८) महाजनी, स्नेहा, आहारशास्त्राची मूलतत्वे मंगेश प्रकाशन, नागपूर

१९) सेले, आणि देऊस्कर, आहार मीमांसा : म. वि. प्र. नि. मंडळ, नागपूर

२०) सेले, आणि देऊस्कर, आहार शास्त्र विविध दृष्टिकोनातून : म. वि. प्र. नि. मंडळ, नागपूर

२१) टिळक, निर्मला - पाटी-पाटी शाकाहारी : पाण्युत्तर प्रकाशन मुंबई

२२) परुळेकर आशा आणि कांचळे वसुंधरा रुचिपूर्ण, शास्त्र साहित्य, मुपयार पेठ, पुणे.

२३) सेले सरल - पोषण व आहारशास्त्र परिचय

२४) देऊस्कर आशा आणि जोशी, संध्या अन्न व पोषण प्रात्यक्षिक कार्यपुस्तिका प्रकाशक, श्री. व्ही. एल. देऊस्कर, वृंथवन कॉलनी, अमरावती

General Reading

1. Encyclopedia of Social Sciences.

11. SOCIOLOGY

INDIAN SOCIAL STRUCTURE AND SOCIAL PROBLEMS

Time - 3 Hrs.

Max.Marks-100

Unit-I : The Structure and Composition of Indian society.

A) Meaning and characteristics of Tribal. Rural and Urban Society.

B) It's changing nature and Rural-Urban Continuum.

C) Weaker section-Tribals, Dalits, women, Religiuds

Minorities. Problems and their solutions

D) Population Profile : Population Explosion

Unit-II : Basic Institutions of Indian society :

A) Family-structure. functions and changes of joint Family and Nuclear Family.

B) Marriage: Meaning significance and its changing nature.

C) Caste and Class:- Meaning characteristics functional and Dysfunctional aspects and its changing nature

Unit-III : Genesis of Social Problems :

A) Meaning Approaches : Disorganizational. Anomie and Valuational.

B) Structural Problems: Poverty, Gender, In-equality- Changing Status of Women.

Unit-IV : Familial Problems.

A) Dowry Domestic Violence against women.

B) Divorce-Causes and social implications Related legal Provision.



[Signature]
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B.A. Final Exam., 2011

Prospectus No. 2011113

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SANT GADGE BABA AMRAVATI UNIVERSITY

वाङ्मय विद्याशाखा व समाजविज्ञान विद्याशाखा
(FACULTY OF (I) ARTS & (II) SOCIAL SCIENCES)
Continued for Summer-2019 Exams
(As It Is)

अभ्यासक्रमिका

वाङ्मय स्नातक अन्य परीक्षा २०११

(त्रिवर्षीय अभ्यासक्रम)

Continued for B.A. Final, 2019 Exam.
(Along Notification No. 58/2017)

PROSPECTUS

OF Continued for B.A. Final, 2017 Exam
(Along with Notification No. 47/2016)
The Examination for the Degree of
Bachelor of Arts Final, 2011
(Three Year Degree Course)

Continued for Summer-2014 Examination
(Along with Notification Nos. 65/2013,
Direction No. 14/2013)

Continued for B.A. Part-III
2 Exams. (Along with
Notification No. 70/2011.



Continued for B.A. Final 2016 Exam
(Along with Notification No. 74/2015)
112/2016 & Direction No. 23/2014

Continued for B.A. Final, Exam
(Along with Notification No. 64/2014, 65/2014,
Direction No. 11/2014 & 40/2012)

2010

Continued for B.A. Final 2013
(Along with Notification
No. 57/2012, &
15/2012)

Rs - 12 -

Price Rs.




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b) Logical and Non-Logical Action.

Books Recommended

1. Aron, Raymond . 1967 (1982 reprint) Main current in sociological Thought (2 vollumes) Harmondsworth Middleson Penduin Books.
2. Barthes H.E. Introduction to History of Sociology The Vniversity of Chicago press.
3. Coser, Lewsa 1979 Masters of Sociological Thought, New York Harcourt Brace Jovanvich.
4. Morrison ken 1995, Mark Durkhem Weber, Formation of modern social Thought. London , sage.
5. Ritzer, Georgo, 1996 : Sociological Theory New Delhi Tata- Macgraw Hill.
6. Gerth M & Mills C.W.: From Max Weber and Essays in Sociology.
7. Bottomor and Rueben Kari Marx
8. Tom Bottmore Marxist Sociology.
9. Coser and Rosenbary : Sociological Theory
10. Sorokin p Contemporary : Sociological Theories.
11. Percy, S Cohen Modern Social Theory : Heinemor, Educational Books Ltd. London 1968.
१२. सामाजिक विचारधारा : रविन्द्रनाथ मुखर्जी
१३. सामाजिक विचारवंत : प्रा. एन.एस. वैद्य
१४. सामाजिक विचारवंत : डॉ. प्रदीप आगलावे
१५. सामाजिक विचारवंत : प्रा. कुळकर्णी पी.के.
16. Encyclopedia of Social Sciences

C) RURAL AND URBAN SOCIOLOGY

Time - 3 Hrs

Max.Marks -100

- Unit-I**
- a) Evolution of Rural Sociology, its scope, subject matter and significance.
 - b) Evolution of Urban Sociology its scope, Subject matter and significance.
- Unit-II**
- a) Distinctive characteristics of Rural and Urban Society Caste, Family, Economy and Technology.
 - b) Rural Urban Differences.
- Unit-III**
- a) Rural Economy, Jajmani System and its Changing Nature.
 - b) Urban Economy-its nature and labour Market
 - c) Development Issues, Poverty Displacement, Environmental issues.
- Unit-IV**
- a) Rural Urban Continuum.



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

- Methods of Embroidering the stitches with the help of diagrams, designs and small samples of stitches..
- Preparing Bags/ Envelopes from waste papers or any article based on "Best out of Waste" or Block Printing on Envelopes or Cards

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:

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

Appendix-F

Syllabi of B.A. Part-I

Semester-I

**Introduction of Sociology
(Implemented from 2017-18)**

- Unit-I** A) Sociology : Its meaning, Nature & Scope of Sociology
B) Subject Matter of Sociology, Relationship of Sociology with other Social Science
Anthropology History, Political Science & Economic
- Unit-II** A) Sociological Perspective :
1) Structural Functional 2) Dialectic
B) Sociology as a Applied Science :
1) Sociology & Social Problems
2) Sociology & Social Policy
3) Sociology & Development
4) Sociology & Professions.
- Unit-III** Basic Concept :
A) Society Meaning & Characteristics
B) Community : Meaning & Characteristics
C) Social Groups: Meaning of Types of Groups
D) Social Structure : Meaning & Elements
- Unit-IV** A) Status & Role
B) Social Institution : Meaning & Characteristics
C) Social Norms Meaning & Characteristics Importance of Norms
D) Value : Meaning & Importance



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Unit-V

Social Control :

- A) Meaning of Social Control
- B) Type of Social Control

Social Conformity & Deviation

- A) Meaning & Causes of Conformity
- B) Meaning & Causes of Deviation

Reference Books :

- 1) Harlampos M. - Sociology : Themes & Perspective, New Delhi, Oxford University Press. 1998
- 2) Johnson Harry M. - 1995 Sociology : a Systematic Introduction, New Dehli Aiiled Publisher.
- 3) Vidyabhushan & D.R. Sachadeo - Introduction to Sociology
- 4) Kingsley Davis : Human Society
- ५) समाजशास्त्र परिचय : रा.ज. लोटे, ए.डी. चौहाण, पिंपळापुरे अॅण्ड पब्लिशर्स, नागपूर
- ६) समाजशास्त्राची मुलतत्त्वे : प्रा.भाऊ दायदार, अंशुल प्रकाशन, नागपूर
- ७) समाजशास्त्र : डॉ.प्रदिप आगलावे, साईनाथ प्रकाशन, नागपूर
- ८) समाजशास्त्र परिचय : डॉ.डि.एस. मनवर, अरुणा प्रकाशन, लातूर
- ९) भारतीय सामाजिक संस्था : डॉ.जितागड्
- १०) समाजशास्त्र : विलास संगवे

Semester-II

Introduction of Sociology

Unit-I

Individual & Society :

- (A) Culture : Meaning and Characteristics, Elements of Culture, Ethnocentrism
- (B) Socialization: Meaning and Stages, Agencies of Socialization.

Unit-II

Social Institutions:

- A) Family : Meaning, Characteristics & Functions of Family
- B) Marriage : Meaning and Characteristics, Origin of Marriage, Changing Nature of Marriage.

Unit-III

- A) Religion: Meaning & Functions of Religion, Origin of Religion
- B) Political System : Meaning of Political System, Concept of Domination and Type of Authority.

Unit-IV

Social Movement :

- (A) Meaning & Characteristics of Social Movement
- (B) Type of Social Movement.
- (C) Origin & Causes of Social Movement

Unit-V

Social Stratification & Social Change :

- (A) Meaning of Social Stratification, Function & Significance
- (B) Meaning of Social Change, Factors of Social Change
- (C) Type of Social Change.

Reference Books :

- 1) Harlampos M. : Sociology : Themes & Perspective, New Delhi, Oxford University Press. 1998
- 2) Johnson Harry M. : 1995 Sociology : a Systematic Introduction, New Dehli Aiiled Publisher.
- 3) Vidyabhushan & D.R. Sachadeo : Introduction to Sociology
- 4) Kingsley Davis : Human Society
- ५) समाजशास्त्र परिचय : रा.ज. लोटे, ए.डी. चौहाण, पिंपळापुरे अॅण्ड पब्लिशर्स, नागपूर
- ६) समाजशास्त्राची मुलतत्त्वे : प्रा.भाऊ दायदार, अंशुल प्रकाशन, नागपूर
- ७) समाजशास्त्र : डॉ.प्रदिप आगलावे, साईनाथ प्रकाशन, नागपूर
- ८) समाजशास्त्र परिचय : डॉ.डि.एस. मनवर, अरुणा प्रकाशन, लातूर
- ९) भारतीय सामाजिक संस्था : डॉ.जितागड्
- १०) समाजशास्त्र : विलास संगवे

OR

C) Preparation of Children Play-Material (Games) for Self- Employment

Distribution of 30 Marks of Practical Examination

A) Preparation of Dish (Any One) With Presentation	- 08
B) Drafting / Play Material	- 06
C) Class Work / R.B	- 13
D) Viva	- 03

References :

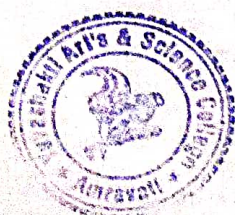
- | | |
|--|---|
| 1. Herlock Elizabeth | - Child Development |
| 2. Swaminathan M.B. and Bharghave, R.K. | - Our Food. |
| 3. Herlock Elizabeths | - Chilgrowth and Development |
| 4. जुननकरकुसुम | - मातृकला |
| 5. चंद्रावसरनलिनी | - मातृकला आणि बालसंगोपन पिंपळापुरे प्र.क.नागपूर. |
| 6. पुरम प्रभावती | - शिवणकला, मॅजेस्टिक बुक स्टॉल, मुंबई-४ |
| 7. काळे प्रेमला | - बाल मानसशास्त्र |
| 8. आपटे, सारंगधर आणि पाठक | - आ |
| 9. काळे प्रभावती | - लोकरीचे अभिनवविणकाम, नितीन प्रकाशन, पुणे-३० |
| 10. भिसे, पद्मावती | - सोपे शवणकाम मॅजेस्टिक बुक स्टॉल, मुंबई-४ |
| 11. योगेन्द्रजीत भाई | - विकासात्मक मनोविज्ञान |
| 12. जुननकरकुसुम | - बालकाचाविकास व खेळणे |
| 13. जुननकरकुसुम | - मातृत्व आणि बालसंगोपन, पिंपळापुरेअॅन्ड कं.पब्लिशर्स,
महाल,नागपूर-२ |
| 14. व-हाडपांडे नलिनी | - बालविकास |
| 15. कांडलकर,लिना | - मानवविकास, विद्या प्रकाशन, रुईकर रोड, नागपूर-०२ |
| 16. गणोरकर, मीना | - बालविकास आणि संबंधितक्षेत्र, म.वि.ग्रं.नि.पुणे-३० |
| 17. विग, क्लाईड, चौधरी शंकरनाडकर्णी सुरेश, | - एच आय व्ही आणिएडस, कुटुंब मार्गदर्शिका पॉप्युलर
प्रकाशन मुंबई - ३४ |

Appendix-F

Syllabi of B.A. Final (Sociology)
Semester-V
Social Anthropology
(Implemented from 2019-20)

Total Marks : 100
Theory :80
Int.Ass. : 20

- Unit-I Introduction to Social Anthropology:**
- Meaning & Definition of Social Anthropology
 - Why we Study Primitive Society
 - Characteristics of Primitive Society
 - Relation of Social Anthropology with other Social Science i) Sociology, ii) Economics, iii)History, iv) Psychology & v) Political Science.
 - Importance of Sociology Anthropology in India
- Unit-II Methods of Social Anthropology :**
- Field Method : Importance of Field Method Role of Researcher in Field Method
 - Historical Method, Comparative Method & Functional Method
 - Importance of Tribal in Social Anthropology
 - Historical background of Tribal Study
- Unit-III Tribal Society In India :**
- Geographical Distribution of Indian tribes
 - Racial Classifications of Indian tribes
 - Linguistic Classification of India Tribe



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- Unit-IV Tribal Religion:**
a) Meaning & Definition of Tribal Religion
b) Theories of the Origin of the Religion
c) Beliefs & Rituals
d) Definition of Magic, Type of Magic
e) Shaman & Priests
- Unit-V Tribal Economics :**
a) Classification of Tribal Economy
b) Meaning & Characteristics of Tribal Economy
c) Economic Life in Indian Tribal

Reference Books :

- | | |
|-----------------------------|---|
| 1) Mujumdar and Madan | - Social Anthropology Development. |
| 2) Beals and Hoijar | - Introductions to Social Anthropology |
| 3) मुखर्जी, रविद्रनाथ | : सामाजिक मानवशास्त्र (हिंदी) |
| 4) वैद्य, नि.स. | : सामाजिक मानवशास्त्र (मराठी) |
| 5) खडकी, डॉ.भा.की. | : सामाजिक मानवशास्त्र |
| 6) संगवे, विलास | : आदिवासींचे सामाजिकजीवन |
| 7) प्रकाश बोबडे व लोटे | : सामाजिक मानवशास्त्र |
| 8) लोटे रा.ज. व चौहाण ए.डी. | : सामाजिक मानवशास्त्र |
| 9) उंबरकरडॉ. डी.ई. | : कोरकू आदिवासी सामाजिकविकास आणि शासकीयकल्याणकारी योजना |
| 10) चौहान, अ.धो. | : सामाजिक मानवविज्ञान, सत्यम पब्लिशर, जयपूर |

**Semester-VI
Social Anthropology
(Sociology)**

Total Marks : 100
Theory : 80
Int.Ass. : 20

- Unit-I Tribal Social Life :**
a) Marriage (i) Meaning & Characteristics of Marriage (ii) Origin of Marriage Type of Marriage (iii) Ways of Acquiring Mates in Tribal Society
- Unit-II**
a) Family (i) Definition, Elements & Characteristics of Family.
ii) Theories of Origin of Family Type of Family
b) Clan : (i) Meaning & Type of Clan (ii) Characteristics of Clan and Functions of Clan
- Unit-III**
a) Totemism: (i) Meaning & Characteristics of Totemism (ii) Theories of Origin of Totem (iii) Importance of Totem
b) Dormitory System :
i) Daily life of Dormitory
ii) Function of Dormitory
iii) Origin of Dormitory
iv) Present Position of Dormitory
- Unit-IV Tribal Problems :**
a) Poverty & Indebtedness
b) Land Alienation & Agrarian Issues
c) Illiteracy & Exploitation
- Unit-V Tribal Development :**
a) Tribal Development Approaches : Isolation, Assimilation, Integration
b) Tribal Development policies: Land, Education & Health.
c) Obstacles to the Tribal Development.

Objectives: This Course will Enable the Students-

- 1 To develop skill & creativity among student in textile & clothing
- 2 To aware the students about traditional embroideries
- 3 To learn the student application of taught course contents
- 4 To prepare the student for self employment by learn & practice

Unit-I

- 1.1 Types of Figures
- 1.2 Anthropometric Measurements
- 1.3 Standard Measurement Chart for Men and Women & Boys and Girls
- 1.4 Types and Methods of Draping and Flat Pattern Making

Unit-II

- 2.1 Introduction of Pattern Making
- 2.2 Importance of Pattern Making
- 2.3 Basic Tools used for Pattern Making
- 2.4 Pattern Making-Drafting and Adaptation of Basic Block-Bodies, Skirt and Sleeve

Unit-III

- 3.1 Types of Tucks
- 3.2 Types of Pleats and Darts
- 3.3 Types of Yokes and Pockets
- 3.4 Types of Collars and Princess' Lines

Unit-IV

- 4.1 Fashion Definition and Meaning
- 4.2 Fashion Principles and Fashion Cycle
- 4.3 Pattern Making Techniques and Grading Techniques
- 4.4 Fashion Marketing

Unit-V

- 5.1 Traditional Costumes- History & Theory
- 5.2. Maharashtra and Kashmir
- 5.3 Panjab and Gujrat
- 5.4 Kerala and Rajstan

Internal :

1. Assignment & Seminar on Traditional Costumes (Any One) - 10 Marks
2. Visit to Boutique or Exhibition and Report on/ Demo related to - 10 Marks

Class work :

Sample of drafting Collars / sleeves / pleats (any two)

Practical :

Distribution 30 Marks of Practical

- | | | |
|--|---|----------|
| a) Drafting & Details of Collar & Pocket | - | 06 Marks |
| b) Stitching of Collar & Pocket | - | 06 Marks |
| c) Class Work | - | 10 Marks |
| d) Record Book | - | 05 Marks |
| e) Viva-Voce | - | 03 Mark |

Appendix - 'F'

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

Theory : 80
Int.Ass. : 20

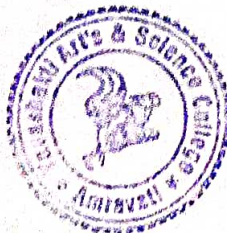
Unit-I

- (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



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- 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) Daby 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.
- 8) खडसे प्रा.भा.की. : भारतीय सामाजिक समस्या, मंगेश प्रकाशन,
- 9) लोटे प्रा.रा.ज. चौहान, ए.डी. : भारतीय सामाजिक संरचना आणि सामाजिक समस्या, पिंपळपुरे अॅण्ड कंपनी पब्लिशर्स, नागपूर
- 10) किर्दकडॉ.बी.एच. : भारत में सामाजिक समस्या, इशिका पब्लिशिंग हाऊस, जयपूर, न्यु. देहली
- 11) आगलावेडॉ.प्रदिप : भारतीय सामाजिक संरचना आणि समस्या, श्री साईनाथ प्रकाशन, नागपूर
- 12) प्रा.शेख शब्बिर : पालकर, सामाजिक समस्या, संगम प्रकाशन, नागपूर,
- 13) डॉ. सुधाकाळदाते : भारतीय सामाजिक समस्या,
- 14) अहुजा राम : भारतीय सामाजिक समस्याएँ, रावत पब्लिकेशन, नई दिल्ली
- 15) 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) Daby S.D. 1990 - Society in India, New Delhi, National Book Trust.
- 3) Lewis Oscar 1986 - Culture of Poverty, Scientific American Vol. II & IV, Nov. 4PP 10.
- 4) Shama Ursula 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.
- 8) खडसे प्रा.भा.की. : भारतीय सामाजिक समस्या, मंगेश प्रकाशन,
- 9) लोटे प्रा.रा.ज. चौहान, ए.डी. : भारतीय सामाजिक संरचना आणि सामाजिक समस्या, पिंपळापुरे प्रिंटिंग कंपनी पब्लिशर्स, नागपूर
- 10) किर्दकडों.बी.एच. : भारत में सामाजिक समस्या, इशिका पब्लिशिंग हाऊस, जयपुर, न्यु. देहली
- 11) आगलावेडों.प्रदिप : भारतीय सामाजिक संरचना आणि समस्या, श्री साईनाथ प्रकाशन, नागपूर
- 12) प्रा.रोख शबिर : पालकर, सामाजिक समस्या, संगम प्रकाशन, नागपूर.
- 13) डॉ. सुधाकाळदाते : भारतीय सामाजिक समस्या,
- 14) अहुजा राम : भारतीय सामाजिक समस्याएँ, रावत पब्लिकेशन, नई दिल्ली
- 15) खैरनारडों. दिलीप : आधुनिक भारतीय सामाजिक समस्या, चिन्मय प्रकाशन, औरंगाबाद

Appendix - 'G'

**Syllabus for B.A. Part-II
Semester-III (Psychology)
Paper-III**

Introduction to Positive Psychology

Marks Theory : 50
Practical : 30
Int.Ass. : 20

Objective:

- To introduce the basic concepts of the growing approach of positive psychology and understand its applications in various domains.
- To make students understand importance of well-being at different stages of life.
- To acquaint the students with Happiness and Positive Traits of Personality.

Unit-I What is Positive Psychology?

A) Traditional Psychology

- i) Why the Negative Focus?

B) Positive Psychology: Assumption, Goals and Definitions.

- i) Life above Zero
- ii) Culture and the meaning of a Good Life

C) Related fields of Positive Psychology

- i) Health Psychology
- ii) Clinical Psychology
- iii) Developmental Psychology
- iv) Social Psychology
- v) Personality Psychology
- vi) Psychology of Religion

Unit-II The Meaning and Measure of Happiness

A) Why a Psychology of Well Being?

- i) Objectives Versus Subjective Measures
- ii) Negative Versus Positive Functioning

B) What is Happiness? Two Traditions

- i) Hedonic Happiness
- ii) Eudemonic Happiness

C) Subjective Well Being: The Hedonic Basis of Happiness

- i) Measuring Subjective Well Being
- ii) Life Satisfaction
- iii) Positive Affect Negative Affect and Happiness
- iv) Global Measures of Happiness.



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- D) Self Realization: The Eudemonic Basis of Happiness
i) Psychological Well Being and Positive Functioning
ii) Need fulfillment and Self Determination Theory
iii) Comparing Hedonic and Eudemonic Views of Happiness

Unit-III Positive Emotion and Well Being

- A) What Are Positive Emotions?
i) The Broaden and Build Theory of Positive Emotion
B) Positive Emotion Health Resources
i) Physical Resources
ii) Psychological Resources
iii) Social Resources
iv) The Limits of Positive Emotions
C) Positive Emotions and Well Being
i) Happiness and Positive Behavior
ii) Positive Emotions and Success
iii) General Theory of Positivity
iv) Positive Emotions and Flourishing
D) Cultivating Positive Emotions
i) Flow Experiences
ii) Savoring

Unit-IV RESILIENCE

- A) What is Resilience?
i) Developmental Perspective
ii) Clinical Perspective
B) Resilience Research
i) Sources of Resilience
ii) The Danger of Blaming the Victim
iii) Sources of Resilience in Children
iv) Sources of Resilience in Adulthood and Later Life
v) Successful Aging
C) Growths Through Trauma
i) Negative Effects of trauma
ii) Positive Effects of trauma
iii) Explanations for Growth through Trauma.
D) Statistics : Measures of Central Tendency (Mean, Median and Mode)

Practicals: (Any Five)

- 1) Mental Health inventory-K. Sharma
- 2) Life satisfaction Scale- Q.G. Alam
- 3) Self perception Scale- Dr. A. Pande
- 4) PGI General Wellbeing Measure-Dr. Santosh Verma & Mrs. Amita Verma
- 5) PGI Quality of Life (R. Form)- Dr. A.C. Moudgal & S.K. Verma
- 6) Emotional Stability Questionnaire- Dr. Sanjay Verma
- 7) Emotional Competencies Scale- Dr. Harish Sharma & Rajive Lochan Bhardwaj
- 8) Achievement Motivation- Bhargawa/ Deo-Mohan



Thursday, the 15th June, 2017

NOTIFICATION

No. 40/2017

Date : 15 June, 2017

Subject : Implementation of Syllabi of Various Courses / Subjects as per Semester and Credit Grade System in the Faculty of Humanities from the session 2017-2018 and Onwards.

It is notified for general information of all concerned that, the authorities of the University has accepted of Semester & Credit Grade System syllabi of various Courses/ Subjects of B.A. Part-I Semester-I & Semester - II mentioned in column No.2 and which is to be implemented stagewise from the session 2017-2018 and onwards, with appendices as shown in column No.3 of the following table.

TABLE

Sr.No.	Course / Subjects	Appendices of the New Syllabi
1	2	3.
B.A.Part-I Semester - I & II		
1.	English	The Syllabi prescribed for the subject Compulsory English, English Literature, Functional English & Supplymentary English which is appended herewith as Appendix-A
2.	Marathi	The Syllabi prescribed for the subject Compulsory Marathi, Marathi Literature, which is appended herewith as Appendix-B
3.	Hindi	The Syllabi prescribed for the subject Compulsory Hindi, Hindi Literature, & Prayojanmulak Hindi which is appended herewith as Appendix-C
4.	Sanskrit	The Syllabi prescribed for the subject Compulsory Sanskrit & Sanskrit Literature, which is appended herewith as Appendix-D
5.	Urdu	The Syllabi prescribed for the subject Compulsory Urdu & Urdu Literature, which is appended herewith as Appendix-E
6.	Persian Literature	The Syllabi prescribed for the subject Persian Literature which is appended herewith as Appendix-F
7.	Pali & Prakrit	The Syllabi prescribed for the subject Compulsory Pali & Prakrit & Pali Literature which is appended herewith as Appendix-G
8.	Music	The Syllabi prescribed for the subject Indian Music which is appended herewith as Appendix-II

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



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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.

2. There shall be a batch of 10 Examinees at a time for Group Discussion.
The Examiner shall supervise & evaluate each participant examinee on the basis of his or her initiative, confidence, pronunciation, fluency, Logical Argument, Appropriate Vocabulary, Timely Response & Understanding of the topic.
3. Internal examiner shall interview an examiner to test his or her spoken skills.
4. There shall be separate passing for theory & Internal Assessment Examination.

**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




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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. = 16 Marks
(Each carries FOUR 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 ASSESMENT: 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 | 25. Humour |
| 2. Prologue | 26. Gothic Novel |
| 3. Epilogue | 27. Rhyme |
| 4. Genre | 28. Rhythm |
| 5. Pastoral | 29. Cadence |
| 6. Paradox | 30. Caesura |
| 7. Melodrama | 31. Stress |
| 8. Imagery | 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

MAX MARKS INTERNAL ASSESSMENT: 20 MARKS

Distribution of Marks

MIN PASSING MARKS : 32 MARKS

MIN PASSING MARKS : 08 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. = 16 Marks
(Each carries FOUR 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 = 9 Marks
(Each carries THREE 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. = 16 Marks
(Each carries EIGHT marks)

Unit V : Multiple Choice Questions (MCQ)

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

Internal Assessment

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

SYLLABUS PRESCRIBED FOR B.A. PART-I EXAMINATION

FUNCTIONAL ENGLISH

(OPTIONAL SUBJECT)

SEMESTER - I

Theory - 50 Marks

Practical - 30 Marks

Internal - 20 Marks

Work-load : 4 lectures and 2 Practicals per week (for batch of 10 students)

UNIT - I : Phonetics I

OBJECTIVES

1. To familiarise the learners with the functioning of English sounds through listening
2. To enable the learners to achieve accuracy in oral production by encouraging the use of a dictionary of pronunciations.
3. To enable the learners to achieve an optimum level of intelligibility and fluency in speech.

Course content :

Theory :

1. Linguistics and phonetics
2. Phonetics and Phonology
3. The Air-stream Mechanisms
4. The Organs of Speech



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PRACTICALS : Intensive drilling in phonetic skills.

Books Recommended :

- 1) A Textbook of English phonetics for Indian students
By. T. Balasubramaniam (Macmillan)
- 2) An Introduction to the pronunciation of English
By. A.C. Gimson (ELBS)
- 3) A History of English Language and Elements of Phonetics.
By. Lalitha Ramamurthi (Macmillan)
- 4) Spoken English R.K. Bansal and J.B. Harrison (O.L)

UNIT - II : Phonetics II

1. The classification and description of speech sounds : Consonants
2. Consonant clusters in English.
3. The classification and description of speech sounds : a) Vowels - Pure Vowels
b) Diphthongs

PRACTICALS : Intensive drilling in phonetic skills.

Books Recommended :

- 1) A Textbook of English phonetics for Indian students
By. T. Balasubramaniam (Macmillan)
- 2) An Introduction to the pronunciation of English
By. A.C. Gimson (ELBS)
- 3) A History of English Language and Elements of Phonetics.
By. Lalitha Ramamurthi (Macmillan)
- 4) Spoken English R.K. Bansal and J.B. Harrison (O.L)

UNIT - III : Grammar

1. Parts of speech.
2. Nouns - a) Classes and gender
b) Number and case
3. Adjectives
4. Use of Articles.
5. Pronouns - Personal, Reflexive and Emphatic, Demonstrative, Indefinite, Interrogative, Distributive and Reciprocal relative.

Books Recommended :

- 1) Contemporary English Grammar structures and Composition David Green (Macmillan)
- 2) Macmillan Foundation English
- 3) Success with Grammar and Composition K.R. Narayana Swami (O.L.)
- 4) Basic English Usage M. Swan (OUP)
- 5) Macmillan Grammar, A Handbook E.A. Augustine K.V. Joseph (M)

UNIT - IV : Remedial Grammar

1. Preposition
2. Reported Speech
3. Words with more than one grammatical function and meaning.
4. Synonyms and Antonyms.
5. One word for a group of words

Books Recommended :

- 1) A Remedial English Grammar for Foreign students. F.T. Wood (Macmillan)
- 2) Creative English for Communication N. Krishnaswamy & T. Sriraman (Macmillan)
- 3) Macmillan Foundation English R.K. Dwivedi & A. Kumar (Macmillan)
- 4) Contemporary English Grammar structures and Composition. David Green (Macmillan)
- 5) Learners English Grammar and Composition. N.D.V. Prasad (S. Chand)

UNIT - V

Multiple choice questions (MCQs) based on Unit I, II, III & IV

INTERNAL ASSESSMENT

- i) Reading -
- ii) Assignment -

NOTIFICATION

No. 47/2018

Date : 7 June, 2018

Subject : Implementation of Syllabi of Various Courses / Subjects as per Semester and Credit & Grade System in the Faculty of Humanities, from the session 2018-2019 and Onwards.

It is notified for general information of all concerned that, the authorities of the University has accepted Semester, Credit & Grade System syllabi of various Courses/ Subjects of B.A. Part-II Semester-III & Semester - IV mentioned in column No.2 and which is to be implemented stagewise from the session 2018-2019 and onwards, with appendices as shown in column No.3 of the following table.

TABLE

Sr.No. Course / Subjects		Appendices of the New Syllabi
1	2	3.

B.A.Part-II Semester - III & IV

1. English
The Syllabi prescribed for the subject Compulsory English, English Literature, Functional English & Supplementary English which is appended herewith as **Appendix-A**
2. Marathi
The Syllabi prescribed for the subject Compulsory Marathi, Marathi Literature, which is appended herewith as **Appendix-B**
3. Hindi
The Syllabi prescribed for the subject Compulsory Hindi, Hindi Literature, & Prayojanmulk Hindi which is appended herewith as **Appendix-C**
4. Sanskrit
The Syllabi prescribed for the subject Compulsory Sanskrit & Sanskrit Literature, which is appended herewith as **Appendix-D**
5. Urdu
The Syllabi prescribed for the subject Compulsory Urdu & Urdu Literature, which is appended herewith as **Appendix-E**
6. Persian Literature
The Syllabi prescribed for the subject Persian Literature which is appended herewith as **Appendix-F**
7. Pali & Prakrit
The Syllabi prescribed for the subject Compulsory Pali & Prakrit & Pali Literature which is appended herewith as **Appendix-G**
8. Music
The Syllabi prescribed for the subject Indian Music which is appended herewith as **Appendix-H**

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

TIME : 3 HOURS

MAX MARKS THEORY : 80 MARKS
MAX MARKS INTERNAL ASSESMENT : 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 Vivekananda
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 Palm - 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)

**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 Vivekananda
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)




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BA Part II
Compulsory English
Semester III
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) **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 = 10 Marks
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 ASSESSMENT : 20 MARKS

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

PROSE -

UNIT I

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




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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

D) Communication Skills :

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

UNIT IV (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 = 10 Marks
- 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 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



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SHORT STORIES:

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

Based on Unit II, III & IV.

TIME: 3 HOURS

MIN PASSING MARKS : 08 MARKS

UNIT I (16 Marks)

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

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

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

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

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

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

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 - G.K. 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



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NOTIFICATION

No. 47/2018

Date : 7 June, 2018

Subject : Implementation of Syllabi of Various Courses / Subjects as per Semester and Credit & Grade System in the Faculty of Humanites, from the session 2018-2019 and Onwards.

It is notified for general information of all concerned that, the authorities of the University has accepted Semester, Credit & Grade System syllabi of various Courses/ Subjects of B.A. Part-II Semester-III & Semester - IV mentioned in column No.2 and which is to be implemented stagewise from the session 2018-2019 and onwards, with appendices as shown in column No.3 of the following table.

TABLE

Sr.No.	Course / Subjects	Appendices of the New Syllabi
1	2	3.

B.A.Part-II Semester - III & IV

- | | |
|-----------------------|---|
| 1. English | The Syllabi prescribed for the subject Compulsory English, English Literature, Functional English & Supplymentary English which is appended herewith as Appendix-A |
| 2. Marathi | The Syllabi prescribed for the subject Compulsory Marathi , Marathi Literature, which is appended herewith as Appendix-B |
| 3. Hindi | The Syllabi prescribed for the subject Compulsory Hindi, Hindi Literature, & Prayojanmulak Hindi which is appended herewith as Appendix-C |
| 4. Sanskrit | The Syllabi prescribed for the subject Compulsory Sanskrit & Sanskrit Literature, which is appended herewith as Appendix-D |
| 5. Urdu | The Syllabi prescribed for the subject Compulsory Urdu & Urdu Literature, which is appended herewith as Appendix-E |
| 6. Persian Literature | The Syllabi prescribed for the subject Persian Literature which is appended herewith as Appendix-F |
| 7. Pali & Prakrit | The Syllabi prescribed for the subject Compulsory Pali & Prakrit & Pali Literature which is appended herewith as Appendix-G |
| 8. Music | The Syllabi prescribed for the subject Indian Music which is appended herewith as Appendix-H |

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**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 Vivekananda
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 Tea - 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 = 10 Marks

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 ASSESSMENT : 20 MARKS

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

UNIT I

PROSE -

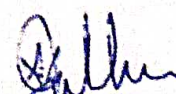
1. Why Are Beggars Despised - George Orwell
2. On the Conduct of Life (extract) - William Hazlitt
3. The Girl - O Henry
4. The Magic Shop - H. G Wells

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




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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 = 10 Marks
- 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 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




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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

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 : 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

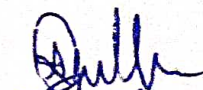
- i) The students will have to answer ONE out of THREE long answer questions of 8 marks = 8 Marks
ii) The students will have to attempt TWO out of FOUR passages for explanation with reference to the context
(Each carries FOUR marks) = 8 Marks

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


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	3.5 Rhodophyceae - <i>Batrachospermum</i>	
UNIT-IV	Introduction to Fungi 4.1 General Characteristics of Fungi 4.2 Classification of fungi (Ainsworth-1973) 4.3 General characteristics of following Subdivisions and life cycle of respective genera 4.3.1 Myxomycotina - <i>Stemonitis</i> 4.3.2 Mastigomycotina- <i>Albugo</i> 4.3.3 Zygomycotina - <i>Rhizopus</i> 4.3.4 Ascomycotina - <i>Aspergillus</i>	12
UNIT-V	Fungi and Applied Mycology 5.1 General characteristics of following Subdivisions and life cycle of respective genera 5.1.1 Basidiomycotina - <i>Puccinia graminis tritici</i> 5.1.2 Deuteromycotina - <i>Alternaria</i> 5.2 Lichen –Types and Economic importance 5.3 Applied mycology - Application of fungi in industry , medicines and agriculture	12
UNIT-VI	Phytopathology 5.1 General symptoms – Rust, smut , powdery mildew, downy mildew, blight stem rot and root rot ,anthracnose, leaf spot etc. 5.2 Symptoms, Pathogen biology and disease management of Bacterial diseases- 5.2.1- Citrus canker 5.2.2- Angular leaf spot of cotton 5.3 Symptoms, pathogen biology and disease management of viral diseases- 5.3.1- Yellow vein mosaic of Bhindi 5.3.2-Curl leaf of papaya 5.4 Symptoms, pathogen biology and disease management of fungal diseases 5.4.1. Tikka disease of groundnut 5.4.2 Powdery mildew of <i>Tectona grandis</i> (Teak)	12
	*SEM– Mycotechnology and Phytopathology 1.Mycorrhizal technology – 1.1 Definition, types and application of Mycorrhiza 1.2 Arbuscular Mycorrhizal Fungi (AMF) - Isolation technique of AMF spores and identification. 1.3 Soil trap culture, Monoculture , Mass multiplication and Biofertilizer. OR 2. Mushroom cultivation technology 2.1 Nutritional and medicinal value of edible mushroom 2.2 Types of edible mushroom available in local area- <i>Agaricus bisporus</i> , <i>Pleurotus</i> . 2.3 Cultivation technology – infrastructure , substrate, polythene bags, vessels, sterilization ,preparation of spawn, bed preparation ,paddy straw (or locally available), etc. 2.4 Storage and marketing. Or 3. Study of plant pathology of local crop plants. 1.1 Symptomology 1.2 Fungal diseases of cotton and soybean 1.3 Chemical fungicides against diseases of cotton and soybean. 1.4 Biological control	
	COs:- After completion of skill enhancement module learner will be able to 1. Acquire skill of isolation of Arbuscular Mycorrhizal Fungal and also able to classify the various species of mycorrhiza. 2. Evaluate the AMF spore in the soil sample of crop plants.	

Faculty: Science and Technology

Programme: B.Sc (Botany)

Syllabus Prescribed for Three Year UG/PG Programme: B.Sc
Semester- II

Code of the Course/Subject	Title of the Course/Subject	(Total Number of Periods)
BOT(2 S)/Botany	Bryophytes, Pteridophytes, Gymnosperms and Morphology of Angiosperms	60

COs

- After completion of this course successfully, the students would be able to
1. demonstrate on understanding of Archegoniate, Bryophytes, Pteridophytes and Gymnosperms.
 2. identify and classify plants from Bryophytes, Pteridophytes and Gymnosperms.
 3. develop critical thinking on morphology, anatomy and reproduction of Bryophytes, Pteridophytes and Gymnosperms.
 4. acquire skill of collection and preservation of Bryophytes, Pteridophytes and Gymnosperms

Unit	Content
Unit I: Bryophytes	12
1.1 General characteristics, affinities with algae and pteridophytes and Classification of Bryophytes by G.M.Smith	
1.2 Morphology, Anatomy and Reproduction of	
i) Marchantiales : <i>Marchantia</i>	
ii) Anthocerotales : <i>Anthoceros</i>	
iii) Briales : <i>Funaria</i>	
1.3 Ecological and Economical Importance of Bryophytes	
Unit II: Pteridophytes	12
2.1 General characteristics of Pteridophytes	
2.2 Types of Stele in Pteridophytes	
2.3 Classification of Pteridophytes by G.M.Smith	
2.4 Morphology, Anatomy and Reproduction of	
i) Sphenopsida : <i>Equisetum</i>	
ii) Lycopsida : <i>Selaginella</i>	
iii) Filicopsida : <i>Marsilea</i>	
Unit III: Gymnosperms and Palaeobotany .	12
3.1 General characteristics and affinities of Gymnosperms with Angiosperm	
3.2 Classification of Gymnosperms by D.D. Pant	
3.3 Morphology, Anatomy and Reproduction of	
i) Coniferopsida : <i>Pinus</i>	
ii) Gnetopsida : <i>Gnetum</i>	
3.4 Economic importance of Gymnosperms.	
3.5 Process of plant fossilization and types of fossils.	
Unit IV: Morphology of Angiosperms	12
4.1 Life cycle pattern : Annual, Biennial and Perennial	
4.2 Angiosperm plant body : Morphology and Modification of Root and Stem	
4.3 Leaf : Types, Modifications, Phyllotaxy, Venation and Stipules	
4.4 Inflorescence : Racemose, Cymose and Special Types	
4.5 Flowers: Structure of Flower- Calyx, Corolla, Androecium, Gynoecium and Placentation	
Unit V: Utilization of Plant Wealth	12
5.1 Fruits : Morphology and Type	
5.2 Morphology, variety and economic importance of	
5.2.1 Food plant: Cereal- Wheat (<i>Triticum aestivum</i>);	
Pulses- Pigeon pea (<i>Cajanus cajan</i>),	
5.2.2 Spices : Cardamom (<i>Ellataria cardamomum</i>),	
5.2.3 Oil yielding plants : Sunflower (<i>Helianthus annus</i>)	
5.2.4 Fiber Plants: Cotton (<i>Gossypium sp.</i>),	
5.2.5 Essential oils- Plant Description and Uses - Rose (<i>Rosa sp.</i>),	
Nilgiri oil (<i>Andropogon sp.</i>)	



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Unit VI : Traditional Knowledge of Medicinal Plants Morphology, Phytochemistry and medicinal uses of 6.1. <i>Aloe vera</i> 6.2. <i>Adhatoda vasica</i> 6.3. <i>Asparagus racemosus</i> 6.4. <i>Azadirachta indica</i> 6.5. <i>Catharanthus roseus</i> 6.6. <i>Chlorophytum borivillianum</i> 6.7. <i>Emblca officinalis</i> 6.8. <i>Ocimum sanctum</i> 6.9. <i>Rauwolfia serpentina</i> 6.10. <i>Vitex negundo</i> 6.11. <i>Withania somnifera</i> 6.12. <i>Tinospora cordifolia</i>	12
*SEM : Skill Enhancement Module Herbal Technology 1. Definition and Scope of Herbal Technology 2. Overview of "Ayush" 3. Cultivation, harvesting, processing and storage of herbal plant parts and product 4. Morphology and Microscopic Examination. And Preliminary Phytochemistry of i) <i>Catharanthus roseus</i> ii) <i>Ocimum sanctum</i> iii) <i>Azadirachta indica</i> iv) <i>Achyranthes aspera</i> v) <i>Aloe vera</i> COs: On completion of this course the students will able to 1. Understand the herbal technology. 2. Develop the skill for cultivation of plants. 3. Acquire the skill of morphological and microscopic examination of herbal plants. 4. List the major herbs, their Botanical names and chemical constituent's.	
**Activities	1. Photographic collection and preparation of e-herbarium of medicinal plants 2. Cultivation of herbal medicinal plants in college garden, home kitchen garden. 3. Preliminary phytochemical analysis of Mentioned medicinal plants 4. Microscopic preparation of herbal medicinal plants and its microphotography. 5. Project on local herbal plants to be submitted at the end of session.

Course Material/Learning Resources

Textbooks:

- 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.
- 8) Cutter, E.G. 1969 : Part-I, Cells and tissues, Edward, Arnold, London.
- 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 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.

Igneous and Metamorphic

logy: Igneous, Sedimentary
New Delhi.

of Sedimentary Rocks. CBS

of Rocks in Thin Sections.

bert (1985) Petrography: An
ks in Thin Sections. CBS

(1981) Economic Mineral
w York.

964) Introduction to India's
ishers.

ndia. C.B S Publisher, New

and Rocks of India. Allied

ineral Resources. Oxford and

9) Principles of Palaeontology.

alaeontology. CBS Publishers.

her (1997) Invertebrate Fossils.

of Invertebrate Palaeontology.

amentals of Invertebrate
prises, Mumbai.

itals of Historical Geology and
rn Ltd., New Delhi.

y of Inida and Burma. CBS

lia. Tata McGraw Hill, India.

y of Maharashtra Geological

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 – 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, Solanaceae, Asclepiadaceae, Apocynaceae, Verbenaceae, Lamiaceae.
- 3.2 Dicotyledons (Monoclamydeae): Euphorbiaceae.
- 3.3 Monocotyledons: Liliaceae, Poaceae.

UNIT IV: Anatomy

- 4.1 Types of Tissues:
Meristematic – Types of meristems
Permanent – 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



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- 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 - 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*, **Caesalpiniaceae**-
Caesalpinia, *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*, *Lagascia*, **Verbanaceae**- *Lantana*,
Clerodendron

PRA

Time:- 5 Hours

- Q.1 Preparation of dc given angiosperm
 Q.2 Description of giv identification up to (two Plants)
 Q.3 Spotting (taxonom
 Q.4 Class record, Ex submission
 Q.5 Submission of mil

Books Recommended :

- 1) A.C.Dutta : Text B
- 2) Andrews A.N. : St
- 3) Arnold C.A. : Intro
- 4) Bhojwani & Bhatr
- 5) Chandurkar : Plan
- 6) Cutter E.G., 1971
- 7) Davis P.H., and Hey
- 8) Eames E.J. : Morp
- 9) Esau K. : 1977, Ana
- 10) Gangulee & Kar : C
- 11) Gangulee Das and D
- 12) Giford E.M. and Fo
- 13) Hartmann H.T. and
- 14) Heyhood V.H. and M
- 15) Jeffrey C., 1982 : Ani

- 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.

CELL BIOLOGY, GENETICS AND BIOCHEMISTRY

Unit-I: Cell Biology

- 1.1 Cell concept - Prokaryotic and Eukaryotic cell
- 1.2 Cell wall - Structure and Functions
- 1.3 Plasma membrane - Structure (models) and Functions
- 1.4 Nucleus - 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 (ER)
- 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 Mendellism: Mendel's law of Dominance, Segregations and Independent assortment, Incomplete dominance
- 4.2 Interaction of genes- Complimentary, 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)

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22. Dynamic Earth - Skinner Potter - Pub John, Wiley.
23. Text Book of Physical Geology - G.B. Manjappa - Pub. C.B.S., New Delhi.
24. Dynamic Earth - Parwardhan A.M., E.E. Publications, New Delhi.
25. Physical Geology - A. Holmes, Orient Longman Publications.
26. Concepts in Geology - Chakranarya, Kulkarni, Pub. Scientific Publication, Pune.
27. Dynamic Earth - Whitley, John Wiley and Sons, New York.
28. Radhakrishnan N. General Geology, VVP Pub, Vellore.
29. Text Book of Engineering Geology - Parbin Singh, Katsion Publishing, Ludhiana.

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 lectures 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).

5S - BOTANY

PLANT PHYSIOLOGY AND ECOLOGY

Unit - I: Plant Water Relations

- 1.1 Importance of water to plant life.
- 1.2 Imbibition, Diffusion, Osmosis, Plasmolysis.
- 1.3 Active and passive Absorption of water.
- 1.4 Ascent of sap - Root Pressure and Transpiration Pull Theory.
- 1.5 Transpiration - Types of transpiration, Stomatal movements, Mechanism of transpiration (Sieve tube hypothesis), Significance. Antitranspirant, Guttation.
- 1.6 Mineral uptake - Active uptake - Carrier Concept, Passive uptake - 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, Abscissic 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) and Stress physiology - Concept, Types of stress, Water and Salinity stress.
- 4.4

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 - Natality and Mortality, Community characteristics - Frequency, Density and Abundance.
- 6.2 Ecological Succession - Hydrosere and Xerosere.
- 6.3 Ecosystem - Definition, Structure and Function.

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

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 Ganong's 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 Ganong's 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 Ganong's 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 – *Hydrilla*, *Eichhornia*, *Typha*, *Utricularia* and *Nymphaea* (any two)

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 – Griffith's Expt, Hershy and Chase Expt.
- 1.2 DNA – 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 – Central Dogma, Types of RNA, Genetic code, Ribosome as a translation machine
- 2.3 Transcription in Eukaryotes – 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 – Operon concept with special reference to Lac Operon
- 3.2 Regulation of gene expression of Eukaryotes – Britton Davidson Model
- 3.3 Protein Folding Mechanism and Structure (Primary, Secondary, Tertiary and Quaternary)
- 3.4 Protein Sorting – 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 – Nomenclature and Types
- 4.3 Cloning vectors – Plasmids, Phages, Cosmids
- 4.4 Gene Source- Genomic and c-DNA library

- 4.5 Gene Transfer Techniques – Direct - (1) Chemical method, (2) Electroporation, (3) Gene gun method
- Indirect – 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 – Infrastructure, Instruments (laminar air flow, autoclave, growth chamber), Culture Media (MS Media), Growth Hormone (Auxin, Cytokinin and Gibberellins)
- 5.3 Sterilization Techniques
- Tissue Culture Technique - Cellular totipotency, differentiation and morphogenesis; Callus Culture; Micro propagation

Unit-VI : Applications of Biotechnology -

- 6.1 Agriculture – 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 – Fermentation Technology- Bakery Products and Alcohol Productions.
- 6.3 Health Care – Edible Vaccines
- 6.4 Conservation – 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

5. A Handbook of Seed Inspectors : Central Seed Committee Ministry of Agriculture.
6. Indian Minimum Seed Certification Standards : N.S.Tunwar, S.V.Singh.
7. Principles of Seed Certification and Testing : N.P.Nema.

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		
Written examination.....		Marks Allotted
Internal assessment.....		80
2) Practical:		20
		50
Total:		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: *Scotinodon sarrakawanah* (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 tigrina*. 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 - mode of speciation - Allopatric and Sympatric speciation.

Modern concept of organic evolution-Neo Darwinism, Population Genetic : Hardy - Weinberg 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

Environmental issues

(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 - K.Z. Young, ELBS Oxford University Press.
3. A Text Book of Chordates - H.S. Bharnah and Kavita Juneja.
4. Modern Text Book of Zoology Vertebrate - R.L. Korpai, Rastogi Publication Meerut.
5. A Text Book of Chordates - A. Thangamani, S. Prasannakumars, L.M. Narayanan and
6. Arumugam Saras Publication, Nagercoil.
7. A Text Book of Chordate Zoology - R.C. Dalela - Jaiprakashnath Publication Meerut.
8. Chordate Zoology - E.L. Jordan and P.S. Verma, S. Chand and Company New Delhi.
9. A Text book of Practical Zoology Vertebrate - S.S. Lal, Rastogi Publication, Meeru
10. Manual of Zoology Vol. II (Chordata), S. Viswanathan (Printers and Publishers) Pvt Ltd, Madras, 891 p.

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 - 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 - S. Chand Publications.
24. Dhabade, D.S. I. A. Raja, R.A. > Gulhane, A.P. Chajjan, A.K. Parki, 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:

1. General characters and classification of Phylum Chordata:

2. 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, Doliodium 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:

1. Dissection - afferent and efferent bronchial vessels, cranial nerves, internal ear of scoliodon.
2. Dissection - Digestive system, Arterial system, venous system, reproductive system of rat.
3. Permanent micro-preparations a. Fish scales, b. Ampullae of Lorenzini, c. Eyeball muscles.
4. Observations of air bladder in air breathing fishes.

C) Osteology: Rabbit, Varanus (excluding loose bones of skull).

D) Evolution:

1. Study of fossils, including living fossils.
2. Study of Evidences of evolution.
 - i) Analogous and Homologous organs.
 - ii) Connecting links (Peripatus, Archaeopteryx, Limulus)
 - iii) Embryological evidences
3. Application of Hardyweinberg's law
4. Study of Mesozoic Reptiles (By Models/Charts).
5. Mimicry, coloration in animals.
6. Beak and Leg modifications with reference to: Parrot, Woodpecker, Kingfisher, Heron, Duck, Sparrow/Pigeon Hawk/Kite, Owl.

D) Histological Slides:- Amphioxus, Frog, Rat

Slides:

Amphioxus: T.S. Oral hood, Pharynx, Tail
 Frog:- T.S. Lung, Stomach, Kidney, T.S. Intestine,
 Rat:- T.S. Liver, Pancreas, Ovary, Testes, Pituitary,
 Thyroid, Adrenal

DISTRIBUTION OF MARKS FOR PRACTICAL EXAMINATION.

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.



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Semester IV

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

ZOOLOGY Paper 4 S

ADVANCED GENETICS AND ANIMAL ECOLOGY

UNIT I : Concept of genes.

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

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

Crossing over – Mitotic and meiotic crossing over, Mechanism of crossing over, theories of crossing over – Darlington's theory, breakage and exchange theory, and copy choice theory. Types of crossing over – 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, Gene 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. Edwrd's

gender issues

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 & diapause. **Light:** Spectral

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

Biotic factors:

Intra specific and interspecific associations, Predation, parasitism, Antagonism, commensalism, 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.

Environment and sustain-ability

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 - P.S. Verma & V.K. Agarwal.
2. Principles of Genetics - S.K. Jain
3. Genetics - P.K. Gupta
4. Applied Genetics - C. Prmannul.
5. Genetics: M.W. Strickerger, New York.
6. Principles of Genetics: Sinnott, Dunn and Dobzansky.
7. Principles of Genetics: Edition 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* - 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, Turner's syndrome, Klinefelter's syndrome, Down's syndrome
7. Detection of syndrome from chromosome spread picture.
8. Study of following human genetic traits and application of Hardy-Weinberg Principle to them - 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. (2 Spot 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



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BSc. Part II. Semester III.

II. INDUSTRIAL FISH AND FISHERIES (VOCATIONAL)

There shall be a 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 periods and 25 practical during the complete semester). There shall be one compulsory paper of 3 hours duration, in theory as stated below and practical examination extending for six 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.

1) Paper-I: FISH BIOLOGY	
Theory (Written)	Marks
Internal assessments 80
Practical: 20
 50
Total: 150 Marks	

Paper-3S- INDUSTRIAL FISH AND FISHERIES

FISHBIOLOGY (SEED PRODUCTION AND FISH PATHOLOGY)

- Unit-I :** Principles of fish breeding. Different stages of seed-Eggs, Spawn, fry and fingerlings Riverine collection. Transportation of fish seed and brood fish. Life cycle of penaeid and non-penaeid prawn.
- Unit-II :** Pituitary gland and its role in fish breeding. Methods of fish and prawn breeding; induced breeding, bunch breeding, ovulating agents used (fish pituitary glands, HCG, pheromones and new generation drugs). Factors influencing fish breeding.
- Unit-III :** Hatching techniques. Different types of hatcheries; hatching hapa, vertical jar hatchery, chinese hatchery, D-variety hatcheries, prawn hatcheries and their management.

- Unit-IV :** Different types of farms and ponds. Topography, design, layout and construction of a fish seed farm. Nursery, rearing ponds, their preparation and management; harvesting of fry and fingerlings.

- Unit-V :** Principles of disease diagnosis and fish health management. Pathogens, symptoms and treatment of infectious diseases; bacterial, fungal, viral, protozoan, helminthic, crustacean. Abolishing, pathogens and controlling its spreading.

- Unit-VI :** Non-infectious and nutritional diseases and their treatment. Fish immunization and vaccines. Important disease problems of prawns, cultured shellfishes and their control. Environment in relation to diseases.

Practicals.

1. Methods of isolation and culture of bacteria and fungi.
2. Identification methods for common bacterial and fungal pathogens of fish.
3. Examination and identification of common fish parasites.
4. Fish disease diagnosis.
5. Study of normal histology of gills, skin, kidney, spleen and liver and related histopathology.
6. Assessment of water quality.
7. Experimental treatments, case studies and field visits.
8. Characteristics of gravid fishes and selection for induced breeding.
9. Anatomy (Dissection) and Histology of fish endocrine glands.
10. Collection and preservation of pituitary glands;
11. Preparation of extract; hypophysation.
12. Study of different hatchery system.
13. Water quality monitoring in hatcheries.
14. Fish seed and brood fish transportation.

Practical Examination

Practical Examination will be of six hours duration and for total 50 marks.

B.S.C. 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-5S-ZOOLOGY: (ANIMAL PHYSIOLOGY AND ECONOMIC ZOOLOGY)

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

Paper 5S-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, Neuropsychologic 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 muscle
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 Langerhan's, 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 - Spider, Mantis, Ladybugs, Damsel bug, Mealybug destroyer, Soldier beetle,

Green lacewing, Syrphid fly, Tachinid fly, Ichneumon wasp



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and Trichogramma wasp.

Harmful Insects - Stirred food grain pests, their injuries and control

(Pests of - Cotton, Sugarcane and Jawar, 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 Happa, Chinese Circular Hatchery, CIFE, Mumbai, hatching model, Induced breeding and hypophyisation, 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 (CPE-11), 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 anaesthesia/ 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 haemocrometer.
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's 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
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.

Environment and ethics

10. Preparation of various stains - Borax carmine Acetocarmine, Aceto-orcein, Haematoxyline, eosin.
11. Staining of the sections, (Double Staining), mounting.
12. Camera Lucida. Use and Drawings
13. Oculomicrometer scale/ similar micro-measurements use
14. Introduction to models of PCR, Southern blotting through available resources.
15. Vital Staining of mitochondria by using Janus, Green B stain.
16. Extraction of DNA by using salt, detergent and enzymes from natural sources from any animal tissue / plant material
17. Study of Operon models through available resources.
18. Application of DNA finger printing through available resources.

Distribution of marks for practical examination:

Time: 5 Hrs.	Marks
01. Microtechnique.	
a) Trimming and Section cutting of the Paraffin blocks	05
b) Spreading of ribbons.	05
c) Staining of the given slide	10
c) Use of camera Lucida/ Ocular micrometer scales	05
02. Any one practical based on Sr. 14 to 18 of the practical list	10
03. Permanent slides submitted by the examinee (5 Slides)	05
04. Class record duly signed by teacher incharge and certified By H.O.D.	05
05. Viva - voce	05
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Total Marks	50

REFERENCES

1. Friefelder, D. Microbial Genetics; Narosa Publishing, New Delhi.
2. Goodenough, U. Genetics. Saunders Coolege Publishing International, New York.
3. Klug, W.S. and M.R. Cummings. Concepts in Genetics; Charles E. Merrill Publishing Co. London.
4. Kumar, H.D. Molecular biology and biotechnology. Vikas Publishing House, New Delhi.
5. Lewin, B. Gene VI. Wiley Eastern Ltd., New Delhi.
6. Rohwell, N.V. Human Genetics. Prentice Hall of India, New Delhi.
7. Simon, E.W.L.C. Dunn, and L.C. Dobzhansky, T. 1985. Principles

- of Genetics Tata McGraw Hill New Delhi.
8. Stern, C. Principles of Human genetics S. Chand & Co. New Delhi.
9. Verma, P.S. and V.K. Agarwal. Genetics S. Chand & Co. New Delhi
10. Balasubramania, D. Concepts in Biotechnology. University Press (India) Ltd., Hyderabad
11. Chopra, V.L. and A. Nasim. Genetic Engineering and Biotechnology. Oxford & I BH, New Delhi.
12. Dharmarajan, M. Genetic Engineering S. viswanathan & Co.
13. Dubey, R.C. 1995. Text book of Biotechnology. S. Chand & Co.
14. Glick, B.R. J.J. and Pasternak. 1998. Molecular Biotechnology SSM Press, Washington.
15. Gupta, P.K. Elements of Biotechnology. Rastogi Publications, Meerut.
16. Jogdand, S.N. Advances in Biotechnology. Himalaya Publishing. New Delhi.
17. Kumar, H.D.. A text book on Biotechnology. East West Affiliated Press Ltd
18. Protter, D.G. Ethical scores for animal experiments. Nature 356: 101-102.
19. Primrose, S.M. Modern Biotechnology. Blackwell Scientific Publishers, Oxford.
20. Trevan, M.D. Biotechnology: The Biological principles. Tata McGraw Hill Publishing Co., New Delhi.
21. Trehan, K. Biotechnology Wiley eastern ltd., New Delhi.
22. Vijayaraman, K. S. Chellamural and P. Manikill. 1998. Uyirayathozhilutpam. Chimeraa, Tiruchy.
23. AM. Pearson & TA Gillett (1996) Processed Meats.
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25. Egg and poultry meat processing.
26. Brenner (2002) Fish as Food. Vol 1 & 2, H.A
27. Ivan Roitt. Essential Immunology (6th Ed.) Oxford, Backwill, Science publication London.
28. Elgert. Immunology understanding the immune system, John Willy & Sons, Inc. publication, New York.

B.Sc. Final year (Semester V)

II: STATISTICS

The examination in Statistics of fifth semester will comprise of one theory paper each, internal assessment and practical examination.

