



**(Estd. under the Panjab University Act VII of 1947—enacted by the Govt. of India)**

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1. English

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**OUTLINES OF TESTS, SYLLABI AND COURSES OF READING IN VARIOUS SUBJECTS FOR  
B.A./B.Sc. (HONOURS) SECOND YEAR (SEMESTER SYSTEM) i.e. THIRD SEMESTER  
NOVEMBER/DECEMBER 2016 AND FOURTH SEMESTER APRIL/MAY 2017, EXAMINATIONS.**

**ENGLISH**

**B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17**

**SEMESTER -III**

**16<sup>th</sup> and 17<sup>th</sup> Century Literature**

Max. Marks : 100  
Theory : 90 marks  
Internal Assessment : 10 marks  
Time : 3 Hours

**Texts :**

1. William Shakespeare *Othello*
2. Francis Bacon
  - (i) *Of Friendship.*
  - (ii) *Of Studies.*

**ENGLISH**

**B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17**

**SEMESTER – IV**

**18<sup>th</sup> and 19<sup>th</sup>**

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**B.A. (HONOURS) SECOND YEAR EXAMINATION,**





**PERSIAN**

**B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17**

**SEMESTER -III**

**Paper : I**

**Marks : 100**

**Time : 3 Hrs.**

History of Persian Literature

i) Ghaznavid Period

**Books Recommended :**

1. Literary History of Persia by Dr. E.G. Brown Part II.
2. She `ul` - Ajam by Shibli Part I, II & III.

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**FRENCH**

**B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17**

**SEMESTER-III**

**SEMESTER – 3<sup>rd</sup> : APPLIED GRAMMAR AND DRAMA**

Max. Marks	:	100
Theory	:	90 marks
Internal Assessment	:	10 marks
Time	:	3 Hours

a)Drama  
Comprehension, explanation and literary appreciation of the prescribed textbook. 50 Marks

**Courses of Reading :**



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## Summary

Max. Marks	:	100 marks(Total)
Paper-2 (Theory)	:	90 marks
Internal Assessment	:	10 marks
Time	:	3 hours

**PAPER-II : ESSAY AND TRANSLATION(Theory): 90 marks**

*Note* ✓ *Use of dictionary is allowed*

- |      |   |   |          |
|------|---|---|----------|
| i.   | Translation of an unseen text/s from German into English. | : | 50 marks |
| ii.  | Translation of an unseen text/s from English into German  | : | 20 Marks |
| iii. | Essay writing in German (about 250 words)                 | : | 20 Marks |
|      | i. Ein Traum  |   |          |
|      | ii. Eine Ferienreise                                      |   |          |
|      | iii. Essen und Trinken                                    |   |          |
|      | iv. Heutige Mode und Kleidung                             |   |          |
|      | v. Ein Fest (indisch/deutsch)                             |   |          |

**Internal Assessment : 10 marks (Total)**

- Continuous Evaluation
- Attendance

*Note* ✓

1. The mode of evaluation for internal assessment is to be followed as per University guidelines.
2. For private candidates, Internal Assessment will be calculated proportionately to the marks obtained by the candidate in written examination.

**Prescribed Textbook:**

- i. Deutsche Texte zum Übersetzen (Hueber Verlag)

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**GERMAN**  
**SEMESTER –IV**

Summary

Max. Marks : 100 marks(Total)  
Paper-I (Theory) : 90 marks  
Internal Assessment : 10 marks  
Time : 3 hours

**Paper-I (Theory) : 90 marks (Total)**

*Note Use of dictionary is allowed.*

- i. Characterization /Literary questions (2 out of 3) on the prescribed drama “Biedermann und die Brandstifter” (Max Frisch) : 60 Marks
- ii. Questions on text comprehension from the prescribed text-book “Lagune-2” Chapers 18-34 (5 out of 6 questions to be attempted) : 30 Marks

**Internal Assessment : 10 marks (Total)**

Max. Marks : 100 marks(Total)  
 Paper-I (Theory) : 90 marks  
 Internal Assessment : 10 marks  
 Time : 3 hours

**PAPER-II : ESSAY AND TRANSLATION(Theory) : 90 marks**

*Note* Use of dictionary is allowed

- |      |   |   |          |
|------|---|---|----------|
| i.   | Translation of an unseen text/s from German into English. | : | 50 marks |
| ii.  | Translation of an unseen text/s from English into German  | : | 20 Marks |
| iii. | Essay writing in German (about 250 words)                 | : | 20 Marks |
|      | i. Der Klimawandel  |   |          |
|      | ii. Auf dem Markt   |   |          |
|      | iii. Medien und Netzwerk                                  |   |          |
|      | iv. Heutige Frau  |   |          |
|      | v. Jugend und Gesellschaft                                |   |          |

**Internal Assessment : 10 marks (Total)**

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**Books Recommended :**

1. Akhtar, Jamna Das, *Political Conspiracies in Pakistan*, Delhi : Punjabi Pustak Bhandar, 1969
2. Britannica.,



**DEFENCE & STRATEGIC STUDIES****SEMESTER-IV****Outlines of Tests, Syllabi and Courses of Reading**

*Note* There will be one theory paper of 90 marks. The internal assessment will be of 10 marks. The theory paper will have one compulsory short answer type question containing 15 questions of 2 marks each covering the entire syllabus. The candidates will be required to attempt any 10 short answer type questions. In addition, there will be four sections of the question paper. The candidate will be required to attempt one question from each of these sections carrying 17½ marks each.

**PAPER : AREA STUDIES–PAKISTAN-II**

Max. Marks	:	100
Theory	:	90 marks
Internal Assessment	:	10 marks
Time	:	3 Hours

**Total Teaching Periods : 75**

**SECTION-I**

1. Jammu and Kashmir Campaign 1947-48 : Causes, operations in brief and effects.
2. Indo-Pak War 1965 : Causes, operations in brief and effects.

**SECTION-II**

3. Indo-Pak War 1971 : Causes, operations in brief and effects.
4. 1999-Kargil War .

**SECTION-III**

5. Defence Potential of Pakistan.
6. Armed Forces of Pakistan.

**SECTION-IV**

7. Nuclear Policy of Pakistan.
8. Terrorism in Pakistan

**Books Recommended :**



B.A. /B.SC.(HONOURS) SECOND YEAR (SEMESTER SYSTEM) SYLLABUS 2016-2017

Explanation:

1. Each essay type question would cover about one-third or one-half of a topic detailed in the syllabus.
2. The paper-setter would avoid repetition between different types of question within one question paper.

**Paper- SOCIAL AND CULTURAL TRENDS IN ANCIENT INDIA**

Max. Marks	:	100
Theory	:	90
Internal Assessment	:	10
Time	:	3 Hours

**Objectives:** To introduce the students to the history of the ancient period in Indian history.

**Pedagogy:** Lectures, library work and discussions.

**UNIT I**

1. Social Institutions: Varna, Jati, Ashrama and Samskara
2. Marginalized Sections of the Society: Shudras and slaves.

**UNIT II**

3. Women: Status and rights
4. Education: system of learning, Principal centres,

**UNIT III**

3. Early Religions : Harappan and Vedic
4. Protest Movements: Jainism and Buddhism

**UNIT IV**

5. Puranic Religions: Vaishnavism, Shaivism and Shaktism
6. Significant developments in art and architecture.
  - (a) Styles of Temple Architecture: Nagara, Dravida and Vesara
  - (b) Sculpture: Mauryan, Mathura, Gandhara and Gupta
  - (c) Painting: Ajanta caves.

**Recommended readings:**

1. P.N.Prabhu, *Hindu Social Organisation*, Popular Prakashan, Bombay, 1979.
2. R.S.Sharma, *Surdas in Ancient India*, Motilal Banarasidas, Delhi, 1980.
3. K.Roy, Ed. *Women in Early Indian Societies*, Manohar, New Delhi,1999.
4. A.S. Altekar, *Education in Ancient India*, The Indian Book shop, Benaras, 1937.
5. S. Ratnagar, *Understanding Harappa*, Tulika, New Delhi, 2001.
6. A.L. Basham, *The Wonder That Was India*, Rupa, Calcutta, 1992.
7. R.G. Bhandarkar, *Vaishnavism, Shaivism and Minor Religious Systems*, Indological Book House, Varanasi, 1965.
8. P.Brown, *History of Indian Architecture*, Vol. I Taraporevala, Bombay 1965.
9. S.K. Saraswati, *Survey of Indian Sculpture*, Munshiram Manoharlal, New Delhi, 1975.
10. D.Barrett & B Grey, *Indian Painting* Skira, Lausanne, 1963.

(ii) **SOCIAL AND CULTURAL TRENDS IN MEDIEVAL INDIA:**

**INSTRUCTIONS FOR THE PAPER –SETTER AND CANDIDATES:**

The syllabus has been divided into four Units.

There shall be 9 questions in all. The first question is compulsory and shall be short answer type containing 15 short questions spread over the whole syllabus to be answered in about 25 to 30 words each. The candidates are required to attempt any 9 short answer type questions carrying 18 marks i.e.







**UNIT II**

3. Socio-Religious Reform Movements in Punjab and North- West: The Arya Samaj; Singh Sabhas and the Ahmadiyahs
4. Socio-Religious Awakening in the Central Belt and Maharashtra: The Manav Dharma Sabha; the Prathana Samaj; the Rahnumai Mazdayesan Sabha (among Parsis)

**UNIT III**

5. Cultural Reorientation in the South: Annie Besant and the Theosophical Movement
6. The Marriage Reform Efforts: Legislative measures for the abolition of Sati and Female infanticide; contribution of reformers towards the promotion of widow-remarriage

**UNIT IV**

7. The Social Protest Movements: Role of Jyotiba Phule in Maharashtra; Swami Narayana Guru in Kerala; Mangoo Ram and the Ad Dharm Movement in Punjab.
8. The Literary Trends: Development of literature in Hindi; Bengali and Marathi languages.

**Recommended Readings:**

1. Kenneth W., Jones: *The New Cambridge History of India Socio Religious Reform Movements in British India* (Cambridge, 1989).
2. R.C.Majumdar and Others (ed.): *British Paramountcy and Indian Renaissance*, Part II, Bhartiya Vidya Bhavan Series, Vol. X.
3. Robert D, Baird (ed.), *Religion in Modern India*, Manohar, New Delhi, 1981.
4. Gail Minault

**POLITICAL SCIENCE**

**B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17**

**Outlines of Test**

**Unit-II :** *Rise of Nationalism*

- (a) National Upsurge
- (b) Search for colonies

**Unit-III :** *European Politics and the Post-War Settlement*

- (a) French quest for security and the German urge for equality.
- (b) Britain and the European power system.

**Unit-IV:** *Origins of the Second World War, . International Organisation United Nations*





**POLITICAL SCIENCE**  
**Semester-IV**

**OPTION (i) WESTERN POLITICAL THOUGHT**

Max. Marks	:	100
Theory	:	90 Marks
Internal Assessment	:	10 Marks
Time	:	3 Hrs.

**Objectives :**

This paper aims to introduce to the students the major themes of wes05(-)-3.01205(-)-3.012056495(a)-1-30.12058o tl5(-)-3.01

**Reference Books :**

1. Ernest Barker : *Greek Political Theory, Plato and His Predecessors* (London : Methuen, 1978).
2. Mulgan, R. : *Aristotle's Political Theory* (Oxford : Clarendon, 1977).
3. Plamenatz, John : *Man and Society*, 2 Vols. (New York : Longman, Latest Edition).
4. Quentin Skinner : *Machiavelli* (Oxford : OUP, 1981).

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**OR**

**OPTION (ii) COMPARATIVE POLITICS**

Max. Marks	:	100
Theory	:	90 Marks
Internal Assessment	:	10 Marks
Time	:	3 Hrs.

**Objectives :**

The objective of the course is to familiarize students with recent debates and theories concerning advanced industrial as well as developing societies and this will be undertaken in a comparative framework.

**INSTRUCTIONS FOR THE PAPER-SETTER AND CANDIDATES :**

*The syllabus has been divided into four units.*

There shall be 9 questions in all. The first questi



**Suggested Readings :**

1. Andrew Heywood : *Politics* (London : Macmillan, 1997).
2. Mary Mank Sworth and Mourice Kogan (ed.) : *The Encyclopaedia of Government and Politics* (London : Routledge, 1992).
3. Rod Hague, Martin Harrop and Shaun Breslin : *Comparative Government and Politics, An Introduction* (London : Macmillan, 1998).
4. Gabriel Almond, G. Bingham Powell, Kaare Strom and Russel J. Dalton : *Comparative Politics Today* (Delhi : Pearson Education, 2005).
5. Ronald H. Chilcote : *Theories of Comparative Politics, The Search for a Paradigm Reconsidered* (Boulder : Westview Press, 1994).

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**ECONOMICS**

**B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17**

**SEMESTER-III**



**Paper -II : HISTORY OF ECONOMIC THOUGHT**

Max. Marks	:	100
Theory	:	90 Marks
Internal Assessment	:	10 Marks
Time	:	3 Hours

**INSTRUCTIONS FOR THE PAPER-SETTER AND CANDIDATES :**

*The syllabus has been divided into four units.*

There shall be **9** questions in all. All questions carry equal marks. The first question shall be short answer type containing 12 short questions spread over the whole syllabus and each to be answered in about 25 to 30 words. The candidate is required to attempt any 9 short answer type questions i.e. 2 marks of each. It shall carry 18 marks and shall be **Compulsory** question. Rest of the paper shall contain **4** units. Each unit shall have **two** questions and the candidates shall be given internal choice i.e. the candidates shall attempt one question from each Unit – 4 in all.

**Unit-I**

*Pre-Classical Economic Thought*, Mercantilism : Mercantilist ideas, regulations of economic life, leading theory of Mercantilist school, Physiocracy : ideas with special reference to Quesnay and Turgot.

**Unit-II**

*Classical and Marxian Political Economy*, The classical tradition : Adam Smith, Ricardo, J. S. Mill and Karl Marx on value, distribution and development.

**Unit-III**

*Reaction Against Classicism* : Socialist and Nationalist thinkers, Sismondi, Saint-Simon, Robert Brown and Fourier, Subjective School : Menger, Weiser and Bohm Bewark.

**Unit-IV**

*Neo-Classical Economics*, Main features.

*Marshall*, Scope of Economics, theory of firm, time-element, partial equilibrium analysis.

*Keynes*, Concept of effective demand, consumption, investment, inflationary gap.

**Recommended Readings:**

1. Blaug , M. (1968) : Economic Theory in Retrospect, Richard D. Irwin Inc. Illinois.
2. Gide & Rist (1964) : A History of Economic Doctrine, George G. Harper & Co. Ltd., London
3. Sweezy , P. M. (1991) : The Theory of Capitalist Development, K. P. Bagchi & Co., Calcutta,
4. Roll, Eric (1993) : History of Economic Thought, Oxford University Press, Calcutta..



**Essential Readings:**

Aggarwal, A. S. N. (1972) : India's Population Problem Tata McGraw Hills Co.,

## **ECONOMICS**

### **Semester-IV**

The candidates are required to study one paper out of the following three papers :

- I Industrial Economics.
- II Economics of Public Enterprises.
- III Theory of Statistics.

#### **Paper-I : INDUSTRIAL ECONOMICS**

Max. Marks	:	100
Theory	:	90 Marks

**Recommended Readings :**

1. Barthwal, R. R. (2010) : Industrial Economics : An Introductory Text Book, New Age International Publisher (P.) Ltd., New Delhi.
2. Datt , Rudar & Sundharam K. P. M. (2012) : Indian Economy , S. Chand & Company.
3. Devine , P. J. et al. (1974) : An Introduction of Industrial Economics, George Allen & Unwin Ltd.,London.
4. Howe , W. Steward (1978) : Industrial Economics : An Applied Approach, The Macmillan Press Ltd.
5. Kuchhal, S. C. (1989) : Industrial Economy of India , Allahabad, Chaitanya Publishing House.

**Supplementary Readings :**

1. Ahluwalia , Ishar Judge (1985) : Industrial Growth in India : Stagnation Since Mid Sixties, Oxford University Press, Delhi.





**Supplementary Readings :**

1. Bhalla , G. S. (1968) : Financial Administration of Nationalised Industry in U.K. and India, Meenakshi, Meerut.
2. Gupta, K. R. (1978) : Issues in Public Enterprises, S. Chand & Co., New Delhi.

**Paper- III : THEORY OF STATISTICS**

Max. Marks

**UNIT - IV**

**SOCIOLOGY****B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17****SEMESTER –III****SOCIAL THOUGHT (Compulsory)**

Max. Marks	:	100
Theory	:	90 Marks
Internal Assessment	:	10 Marks
Time	:	3 Hours

**INSTRUCTIONS FOR THE PAPER-SETTER AND THE CANDIDATES :**

- Note*
1. For written paper, the students will be required to attempt **five** questions in all. Question No. 1 will be **compulsory** and cover the entire syllabus. In addition to it, students will attempt **four** essay type questions, one from each of the four units.
  2. Question No. 1 will be compulsory comprising of short answer type questions. It will consist of 12 short answer type questions of 2 marks each, out of which the students are required to attempt 9 short answer type questions ( $9 \times 2 = 18$  marks).
  3. On an average, 15 hours are to be devoted to each unit.
  4. Question Nos. II to IX will be long answer questions, two questions from each unit with internal choice, consisting of 18 marks each ( $4 \times 18 = 72$  marks).

**Objective:**

This paper intends to familiarize the students with the contributions of major thinkers in classical Sociology

**Suggested Readings:**

1. Coser, L.A. (1997) : *Masters of Sociological Thought*, New York : Harcourt Brace Jovonovich
2. Collins, Randall (1977) : *Theoretical Sociology*, Jaipur : Rawat Publications.
3. Raymond, Aron (1982) : *Main Currents in Sociological Thought, Vols. I . II*, Harmondsworth: Penguin Books.
4. Timasheff, N.S.(1967) : *Sociological Theory, Its Nature and Growth*, New York : Random House.
5. Zeitlin, I.M.(1987) : *Ideology and the Development of Sociological Theory*, New Jersey : Prentice Hall.
6. Stones Reb (ed) (2007) : *Key Sociological Thinkers* Palgrave, NY.: Macmillon
7. John A Hughes, W Sharrock Peter T. Martin(2004) : *Understanding Classical Sociology* Sage, Thousand Oak

**SOCIOLOGY****SEMESTER-IV****SOCIAL PSYCHOLOGY**

Max. Marks	:	100
Theory	:	90 Marks
Internal Assessment	:	10 Marks
Time	:	3 Hours

**INSTRUCTIONS FOR THE PAPER-SETTER AND THE CANDIDATES :**

1. For written paper, the students will be required to attempt **five** questions in all. Question No. 1 will be **compulsory** and cover the entire syllabus. In addition to it, students will attempt **four** essay type questions, one from each of the four units.
2. Question No. 1 will be compulsory comprising of short answer type questions. It will consist of 12 short answer type questions of 2 marks each, out of which the students are required to attempt 9 short answer type questions ( $9 \times 2 = 18$  marks).
3. On an average, 15 hours are to be devoted to each unit.
4. Question Nos. II to IX will be long answer questions, two questions from each unit with internal choice, consisting of 18 marks each ( $4 \times 18 = 72$  marks).

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**Essential Readings:**

1. Curtis, Jack H. (1960) : *Social Psychology*, New York : McGraw Hill.
2. Fraser, C. & Burchell, B. (2001) : *Introducing Social Psychology*, Cambridge : Polity Press.
3. Kuppuswamy, B. (1980) : *Social Psychology*, Bombay, Asia Pub. House.
4. Krech, D. & Cretchfield, Richards (1948) : *Theory . Problems of Social Psychology*, New York : McGraw Hill, 1948.
5. Lindgren, H. Clay (1974) : *An Introduction to Social Psychology*, 2<sup>nd</sup> ed., New Delhi : Wiley Eastern.
6. Linde Smith, Strauss, A.R., Denzin, A.L. & Norman, D.(1988) : *Social Psychology*, New Jersey : Prentice Hall.
7. Perry, J.B. & Pugh, M.D.(1978) : *Collective Behaviour, Response to Social Stress*, Minnisotta : West Publishing Co.

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**PHILOSOPHY**



**Unit-IV**

1. Sri Aurobindo
2. Swami Dayanand Saraswati, Swami Vivekananda.
3. Tagore

**Essential Readings :**

1. Inquiry into Meaning & Truth by Russell, Harper Collins, 1980.
2. Modern Indian Thought by V.S. Narvane, Asia, 1967.
3. Philosophy in the 20<sup>th</sup> Century by A.J. Ayer, London, Unwin, 1982.

**Suggested Readings :**

1. Contemporary Philosophy : Studies of Logical Positivism and Existentialism by F.C. Copleston, Continuum Intl. Pub. Group, 2003.
2. Religion of Man by Rabindranath Tagore., Macmillian Publishers, New York, 1931.
3. Srimad Bhagwad Gita Rahasya or Karma Yoga Sastra by B.G. Tilak, Manohar Book Pub., 2002, Delhi.

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**PHILOSOPHY****SEMESTER – IV****Paper: STUDY OF A SPECIAL PHILOSOPHER**

Max. Marks	:	100
Theory	:	90 Marks
Internal Assessment	:	10 Marks
Time	:	3 Hours

**Aims and Objectives :**

The aim of this paper is to make students study a philosopher indepth amongst the options offered.

**INSTRUCTIONS FOR THE PAPER-SETTER AND THE CANDIDATES :**

The syllabus has been divided into four units.

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**OR**

**Option (iii) : IMMANUEL KANT**

- Unit-I** : A –priori and A –posteriori judgements.  
**Unit-II** : Nature of Space and Time.  
**Unit-III** : Function of Categories and Significance of Antinomies.  
**Unit-IV** : Refutation on the various proofs for the existence of God.

**OR**

**Option (iv) : UPANISHADS**

(Chandogya, Mandukya and Isa)

- Unit-I** : Mandukya’s Treatment of ‘Aum’. Symbol of Immanent and Transcendent aspects of Atman.  
**Unit-II** : Philosophy of Being as instructed by Uddalaka Aruni in Chandogya Upanishad.  
**Unit-III** : Nature of Atman in Isa Upanishad.  
**Unit-IV** : Views of Upanishads on Brahman, Soul and World.

**OR**

**Option (v) : SARTRE : Being and Nothingness**

- Unit-I** : Being-in-itself and Being-for-itself.  
**Unit-II** : Facticity.  
**Unit-III** : Freedom, responsibility and badfaith.  
**Unit-IV** : Being for Others, Existence of Others, the problem of embodiment.

**OR**

**Option (vi) : NAGARJUNA**

- Unit-I** : Concept of Sunya.  
**Unit-II** : Sunyata and Pratiyasamutpada.  
**Unit-III** : Logic and Reality.  
**Unit-IV** : Dialectical System.

**OR**



**Suggested Readings :**

1. A Critical History of Greek Philosophy by W.T. Stace, Macmillan India Ltd., 1982.
2. PLATO by J.C.B. Gosling, Routledge & Kegan Paul, London, 1973.
3. Sartre, Jean Paul, Between Existentialism and Marxism (Translated by) John Mathews, Verso, New York, 2005.
4. Stephen Priest (Ed.), Jean Paul Sartre, Basic Writings, Routledge, London, 2007.
5. The Philosophy of Plato by Rupert C. Lodge, Routledge & Kegan Paul, London, 1956.
6. The Philosophy of Sankara's Advaita Vedanta, S.K. C

**PSYCHOLOGY**

**B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17**

**SEMESTER-III**

**Paper : SOCIAL PSYCHOLOGY**

**Objectives :**

**Books Recommended :**

**Essential Books :**

1. Baron, R.A. and Byrne, D. (2003) : So

**PSYCHOLOGY****B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17****SEMESTER IV****Paper : RECENT PERSPECTIVES OF PSYCHOLOGY**

Max. Marks	:	100
Theory	:	90 Marks
Internal Assessment	:	10 Marks
Time	:	3 Hours

**Objectives :**

- I This course aims at helping the students to appreciate the basic assumptions, principles and historical roots of modern scientific psychology. It will also help them to understand main theoretical perspective in psychology.
  
- II Pedagogy of the Course Work :  
  
80 % Lectures (including expert lectures).  
20 % assignments, discussion and seminars.

**INSTRUCTIONS FOR THE P**





## **GEOGRAPHY**

### **B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17**

#### **SEMESTER-III**

#### **Paper-I : THE NATURE OF GEOGRAPHY**

Max. Marks	:	100
Theory	:	90 Marks
Internal Assessment	:	10 Marks
Time	:	3 Hours

#### **Objectives :**

1. To introduce the students to the philosophical and methodological foundations of the subject and its place in the world of knowledge.
2. To familiarise them with the major landmarks in development of geographic thought at different periods of time.

#### **Course Content :**

#### **UNIT-I**

- Nature and Development of Geography as a Discipline.
- Contribution of Eratosthenes, Ptolemy, Humboldt, Ritter and Darwin.

#### **UNIT-II**

Concepts in Geography:

- (i) Spatial Distribution (ii) Man-Environment Relationship (iii) Areal Differentiation and (iv) Spatial Organisation.

#### **UNIT-III**

Approaches:

Empirical/Theoretical, Systematic / Regional, Behavioural.

#### **UNIT-IV**

Schools of Thought:

Determinism, Possibilism, Neo Determinism, Humanism, Radicalism.

- Note*
1. A compulsory question containing 15 short answer type questions shall be set covering the whole syllabus. The students shall attempt any 10 parts in about 25-30 words each. Each part will carry 2 marks (total 20 marks).
  2. The whole syllabus will be divided into 4 units. Eight questions will be set out of the whole syllabus, 2 from each unit. The students will be required to attempt one question from each unit and each question will carry 17.5 marks. These will be in addition to the compulsory question at Serial Number 1.
  3. Internal assessment will be based on (i) class tests, (5%), (ii) academic activities; Seminar, Project, Assignment (3%), and (iii) attendance (2%).

### List of Readings

#### Essential Readings :

1. Husain, Majid. : *Evolution of Geographical Thought*, Rawat, Jaipur, 2001.
2. Martin, G.J. : *All Possible Worlds – A History of Geographical Ideas*, Oxford University Press, U.K., 2005.

#### Further Readings :

1. Adhikari, Sudeepa : *Fundamentals of Geographic Thought*, Chaitanya, Allahabad, 2004.
2. Dikshit, R.D. : *Geographical Thought, A Contextual History of Ideas*, Prentice Hall, New Delhi, 2000.
3. Hartshorne, Richard : *Perspectives on the Nature of Geography*, Rand, McNally and Co., Chicago, 1959.
4. Minshull, R. : *The Changing Nature of Geography*, Hutchinson University Library, London, 1970.

#### Pedagogy :

- Students of geography may be encouraged to interact with their counterparts from other disciplines and discuss the nature of the subject.
- The students may be encouraged to collect information on any theme amenable to geographical interpretation.

### SEMESTER IV

*Any one of the following optional courses :*

**Option (i) : POPULATION GEOGRAPHY (An Elementary Course)**

**OR**

**Option (ii) : URBAN GEOGRAPHY (An Elementary Course)**

**Option (i) : POPULATION GEOGRAPHY (An Elementary Course)**

Max. Marks	:	100
Theory	:	90 Marks
Internal Assessment	:	10 Marks
Time	:	3 Hours

**Objectives :**

The course is meant to provide an understanding of spatial and structural dimensions of population and the emerging issues. The course is further aimed at familiarising the students with global and regional level problems and also equip them for comprehending the Indian situation.

**Course Content :****UNIT-I**

Nature and scope of population geography, factors affecting distribution of population; present world pattern of population distribution. Density of population – various types of densities and their significance; broad spatial patterns of density of population in the world.

**UNIT-II**

Growth of population – Determinants of population growth; trends of population growth in developed and developing countries of the world.

Migration – Types, causes and consequences.

**UNIT-III**

Sex composition – Its determinants and world patterns.

Occupational structure – A comparative study of developed and developing countries.

Literacy–its determinants and world patterns.

**UNIT-IV**

Urbanization – Definition, process of urbanization; comparative study of urbanization in developed and developing countries.

- Note*
1. A compulsory question containing 15 short answer type questions shall be set covering the whole syllabus. The students shall attempt any 10 parts in about 25-30 words each. Each part will carry 2 marks (total 20 marks).
  2. The whole syllabus will be divided into 4 units. Eight questions will be set out of the whole syllabus, 2 from each unit. The students will be required to attempt one question from each unit and each question will carry 17.5 marks. These will be in addition to the compulsory question at Serial Number 1.
  3. Special credit will be given to suitable use of maps.
  4. Internal assessment will be based on (i) c

**List of Readings :**

**Essential Readings :**

1. Chandna, R.C. : *A Geography of Population*, Kalyani Publishers, Delhi, 1996.
2. Clarke, J.I. : *Population Geography*, Pergamon Press, Oxford, Latest Edition.

**Further Readings :**

1. Chandna, R.C. : *Ja* .

4. To examine the contemporary urban issues and suggest new urban planning and urban policy

**Course Content :**

**UNIT-I**

Definition, nature and scope of urban geography.

Definition of urban places.

Evolution of City through Historical Times : Ancient, medieval, modern.

**UNIT-II**

Site and situation of cities : Definition, importance, types.

Size and spacing of cities.

Ecological Processes : Centripetal and centrifugal

**Further Readings :**

1. Johnson, H.J. : *Urban Geography, An Introductory Analysis*, Pergamon Press, London, 1972.
2. Knox, Paul : *Urban Social Geography, An Introduction*, Longman, London, 1982.
3. Verma, LN : *Urban Geography* Rawat Publications
4. Sidhartha K & Mukherjee S : *Cities Urbanization and Urban systems* Kosalaya Publications Pvt. Ltd., 2013.
5. Ramachandran, K : *Urbanisation and Urban Systems in India* Oxford University, Press, 1992.

**Pedagogy :**

- Awareness of data sources such as from Census of India, Town Planning organizations, and their applications to understand and evaluate the spatial patterns and the processes of urbanization should be highlighted in the class. This needs to be in form of selected case studies.
- Study of urban morphology and urban functions with special reference to selected towns need to be encouraged.
- Atlases and maps of NATMO and Census should be consulted and students should be given opportunity to participate in group discussions.

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**PUBLIC ADMINISTRATION**

**B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17**

**Outline of Tests, Syllabi and Courses of Reading**

**SEMESTER -III**

**PAPER- I: ADMINISTRATIVE THOUGHT**



**Essential Readings**

1. Bertram, M. Gross : *The Managing of Organisations The Administrative Struggle* (London: Mac Millan Publishers, 1964)
2. C.S. George : *History of Management Thought* (New Delhi: Prentice Hall, 1974)
3. Fred W. Riggs : *Administration in Developing Countries* (Boston Houghton, 1964)
4. G.S.Sudha : *Management of History Thinkers*(Jaipur :R.B.S.A. Publishers )2004
5. Herbert A. Simon : *Administrative Behaviour A Study of Decision Making Process in Administrative Organisation –* (New York: Macmillan, 3<sup>rd</sup> ed., 1976)
6. Prasad and Prasad : *Administrative Thinkers* (New Delhi: Sterling Publishers, (Reprint - 2007)
7. R.K. Saprū : *Theories of Administration* (New Delhi: S. Chand, 1996)
8. S.R. Maheshwari : *Administrative Thinkers* (New Delhi: MacMillan, 2003)
9. Rakesh Hooja, Ramesh K. (j)-11.156(3)-69126( )-56(n)-6.0241(i)0.89126(s)41(:)0.89126( )-3.0120a5(s)389126()-6.024252

## PUBLIC ADMINISTRATION SEMESTER-IV

**PAPER- II: The candidates have to select one out of the following three options:**

- Option (i) : Agricultural Administration in India**  
**Option (ii) : Industrial Administration in India**  
**Option (iii) : Police Administration**  
**Option (iv) : Public Policy and Analysis**

**PAPER-II – Option (i): AGRICULTURAL ADMINISTRATION IN INDIA**

Max. Marks:	100
Theory:	90 Marks
Internal assessment:	10 Marks
Time:	3 Hours

### Objective of the Paper:

The objective of the paper is to give the student an in-depth knowledge about the role of agriculture in the economic development of the country, role of technology in agricultural development, marketing of agricultural produce. It would also give understanding about the agricultural policies of the government and introduce the student to certain related issues like agricultural finance, agricultural education, research, and extension.

### INSTRUCTIONS FOR PAPER-SETTERS AND CANDIDATES

For Private/University School of Open Learning (USOL) students, who have not been assessed earlier for the internal assessment, the marks secured by them in the paper will proportionately be increased in lieu of the internal assessment.

**The Paper-Setter must put a note in question paper in this regard.**

The candidate shall attempt 5 questions in all (one compulsory and one each from four units). The first compulsory question shall comprise of 12 short-answer type questions, covering the whole syllabus, to be answered in 25-30 words each, out of which the candidate would be required to attempt any 9. Each question will carry 2 marks. Rest of the paper shall contain 4 units, each unit having two questions, out of which the candidate would be required to attempt one. Each question will carry 18 marks.

#### Unit-I

Role of Agriculture in Economic Development  
 Problems of Agricultural Development  
 Agriculture Policy

#### Unit-II

Agriculture Development under Five-Year Plans  
 Centre-State Relations in Agriculture  
 Agriculture Administration at the Central and State Levels

#### Unit-III

New Technology for the Development of Agriculture  
 Marketing of Agriculture Produce  
 Agriculture Finance and Rural Indebtedness

**Unit-IV**

Role of NABARD in Agricultural Development  
 Agricultural Education and Research  
 World Trade Organisation and Agriculture

**Essential Readings**

1. C.H. Hanumantha Rao : *Technological Change and Distribution of Gains in Indian Agriculture* (Delhi: Macmillan, 1975)
2. R.N. Ghosh : *Agriculture in Economic Development with Special Reference to Punjab* (New Delhi: Vikas, 1977)
3. P. Chaudhary : *Readings in Indian Agricultural Development* (London: George Allen & Unwin, 1972)
4. V.S. Mahajan : *Agriculture and Rural Economy in India* (New Delhi: Deep & Deep Publications, 1990)

**Further Readings**

1. N.C.A.E.R. : *Credit Recruitment for Agriculture* (New Delhi: 1974)
2. Government of India, : *Reports* (New Delhi: Manager of Publications, 1976)  
National Commission on Agriculture
3. Government of India : *Economy Survey* (Recent Years)  
Ministry of Finance,  
Economic Division
4. Government of India, : *Five Year Plan 200 - 20*  
Planning Commission *2<sup>h</sup> Plan Approach Paper*

**PAPER-II – Option (ii): INDUSTRIAL ADMINISTRATION IN INDIA**

Max. Marks:	100
Theory:	90 Marks
Internal assessment:	10 Marks
Time:	3 Hours

**Objective of the Paper:** The objective of the paper is to give the student an insight and rationale into the concept of Industrialization, role of Public Enterprises in industrial development and the concepts of privatization and disinvestment. It would also give an understanding about the industrial policies of the government and introduce the student to certain related issues like industrial pollution, industrial sickness, and industrial dispersal.

**INSTRUCTIONS FOR PAPER-SETTERS AND CANDIDATES**

For Private/University School of Open Learning (USOL) students, who have not been assessed earlier for the internal assessment, the marks secured by them in the paper will proportionately be increased in lieu of the internal assessment.

**The Paper-Setter must put a note in question paper in this regard.**

The candidate shall attempt 5 questions in all (one compulsory and one each from four units). The first compulsory question shall comprise of 12 short-answer type questions, covering the whole syllabus, to be answered in 25-30 words each, out of which the candidate would be required to attempt any 9. Each question will carry 2 marks. Rest of the paper shall contain 4 units, each unit having two questions, out of which the candidate would be required to attempt one. Each question will carry 18 marks.

**UNIT-I**

Industrialization – Meaning, Objectives and Rationale  
Role of Industry in Economic Development  
Problems of Industrialization in India

**UNIT-II**

Industrial Policy Resolution of 1948 and 1956  
New Industrial Policy of 1991  
Industrial Finance – Sources, Problems and Remedies

**UNIT-III**

Role of Public Enterprises in Industrial Development of India  
Privatization – Meaning, Methods, Merits and Demerits  
Disinvestment – Meaning, Methods, Merits and Demerits

**UNIT-IV**

Industrial Pollution – Meaning, Types and its Impact on Environment  
Industrial Sickness – Meaning, Extent and Magnitude, Causes and Remedies  
Industrial Dispersal – Meaning and Policy Measures

**Essential Readings**

1. A.N. Aggarwal

:

**Further Readings**

1. K.V. Sivayya, V.B.M. Dass : *Indian Industrial Economy* (New Delhi: S.Chand & Co., 2004)
2. Govt. of India, Planning Commission : *10<sup>th</sup> Five Year Plan 2002-200* (New Delhi: Planning Commission, 2002)
3. P.K. Dhar : *Indian Economy – Its Growing Dimensions* (New Delhi: Kalyani Publishers, 2007)
4. Government of India, Ministry of Finance, Economic Division : *Economic Survey* (Recent Years)

**PAPER-II – Option (iii): Police Administration**

Max. Marks:	100
Theory:	90 Marks
Internal assessment:	10 Marks
Time:	3 Hours

**Objective of the Paper:**

The objective of the paper is to give the student a

**Unit-II**

Organization and functions of Union Ministry of Home Affairs  
 Police Administration at State level  
 Police Administration at District level

**Unit-III**

Police Personnel Administration in India: Recruitment and Training of Police Personnel at Centre (IPS) and State level (SPS)  
 Service conditions and Discipline in Police Services

**Unit-IV**

The Concept and Need of Community Policing.  
 Concept & Importance of E-Governance in Police.  
 Attitudinal Change in Police: Concept, Significance and Methods.

**Essential Readings**

1. Anandswarup Gupta : *The Police in British India* ,  
*Bureau of Police Research and Development* (New Delhi, 2007)
2. J.C. Chaturvedi, : *Police Administration and Investigation of Crime* (Isha Books, Delhi, 2006)
3. O. Glenn Stahl : *Public Personnel Administration* (Oxford & IBH Publishing Co., New Delhi, 1975)
4. P. Muthuswamy : *Swamy's Manual on Disciplinary Proceedings* (Swamy Publishers (P) Ltd., Chennai, 1989)
5. S.K. Ghosh & K.F.M. Rustamji : *Encyclopaedia of Police in India*, Vol. I, II III, 1993, 1994 and 1997
6. Vdackumchery , James : *National Police Commission Issues For Rethinking*, APH Publishing Corporation, New Delhi, 1998

**PAPER-II-Option (iv) : Public Policy and Analysis**

Max. Marks:	100
Theory:	90 Marks
Internal assessment:	10 Marks
Time:	3 Hours

**Objective of the Paper:**

The purpose of this course is to provide students an understanding of the basic concepts of public policy and the environment in which it operates .It attempts to help students understand and gain insights into the variousstages in policy process with special reference to the social, political and administrative environment prevailing in India.

**INSTRUCTIONS FOR PAPER-SETTERS AND CANDIDATES**

For Private/University School of Open Learning (USOL) students, who have not been assessed earlier for the internal assessment, the marks secured by them in the paper will proportionately be increased in lieu of the internal assessment.

**The Paper-Setter must put a note in question paper in this regard.**

The candidate shall attempt 5 questions in all (one compulsory and one each from four units). The first compulsory question shall comprise of 12 short-answer type questions, covering the whole syllabus, to be answered in 25-30 words each, out of which the candidate would be required to attempt any 9. Each question will carry 2 marks. Rest of the paper shall contain 4 units, each unit having two questions, out of which the candidate would be required to attempt one. Each question will carry 18 marks.

**Unit I**

Public Policy - Meaning, Significance and Types

Distinction between Policy, Planning , Decision making and Goals;Policy Cycle

Policy Analysis- Meaning, Significance; Approaches to Policy Analysis

**Unit-II**

Public Policy Formulation:Models of Policy-Making:Incremental,Rational, Institutional

Role of Legislature,Executive, Judiciary, Political Parties in policy formulation

**Unit-III**

Public Policy Implementation :

Role of Executive, Legislature,Bureaucracy and Judiciary in Policy Implementation

Major problems in policy implementation

**Unit IV**

Policy Monitoring and Evaluation ;Criteria for Evaluation;  
Problems in Policy Evaluation

**Essential Readings**

1. Birkland,Thomas A.

An introduction to the Policy Process: Theories , Concepts. And  
Models of Public Policy Making(M.E.Sharpe , 20











**ANCIENT INDIAN HISTORY, CULTURE & ARCHAEOLOGY**

**SEMESTER-IV**

*Note :*

**UNIT-III:**

5. Administrative Organisation under the Kushanas.
6. Administrative Organisation under the Guptas.

**UNIT-IV:**

7. Administrative Organisation under the Pushyabhutis.
8. Administrative Organisation under the Cholas.

**Essential Readings :**

1. Altekar, A.S. : *State and Government in Ancient India*, Motilal Banarsidass, Delhi, 1958.
2. Devhuti, D. : *Harsha, A Political Study*, Oxford University Press, New Delhi, 2001.
3. Dikshitar, V.R.R. : *Hindu Administrative Institutions*, University of Madras, Madras, 1929.
4. Ghoshal, U.N. : *A History of Indian Political Ideas*, Oxford University Press, London, 1959.
5. Goyal, S.R. : *History of Imperial Guptas*, Central Book Depot, Allahabad, 1968.
6. Jayaswal, K.P. : *Hindu Polity*, Chowkhamba Sanskrit Pratisthan, Banglore, 1967, 2005.
7. Mukherjee, B.N. : *Rise and Fall of the Kushanas*, Firma KLM, Calcutta, 1988.
8. Prasad, Beni : *State in Ancient India*, Central Book Depot, Allahabad, 1974.
9. Satya Shrava : *The Sakas in India*, Motilal Banarsidass, New Delhi, 1981.

**Paper VII: HISTORY OF ART AND ARCHITECTURE (EARLIEST TIMES TO C. 1000 A.D.)**

Total Marks	:	100
Theory	:	90
Internal Assessment	:	10
Total	:	3 Hours

**Objectives :**

The main objective of the paper is to acquaint the students with the architecture of ancient Buddhist and Hindu monuments, stone and bronze sculptures, that form an integral part of ancient history and heritage, for comprehensive understanding of the subject.

- Note*
1. The paper setter is required to set 9 questions in all.
  2. The candidates are required to attempt five questions in all.
  - 3.

**UNIT-IV:**



**POLICE ADMINISTRATION****B.A. (HONOURS) 3<sup>rd</sup> Semester EXAMINATION, 2016-17****SEMESTER-III****Semester III : Police Administration and Crime****(A) Course Objectives:**

The objective of this course is to introduce to the students, the Concept, Characteristics, and Causes of Crime. The endeavour also is to discuss the special forms of crime. Towards the end the students will be imparted knowledge relating to the role of Police in controlling crime.

**(B) Pedagogy of the Course Work:**

90 per cent of the Course Content would be delivered through Lecture Method and rest 10 per cent would comprise of :

- i. Internal Test-5%;
- ii. Academic activities (Seminar, Project, Assignment)-3%;
- iii. Attendance-2%

**(C) Instructions for Paper Setters and Candidates:**

- The maximum marks for the paper will be 100. The question paper will be of 90 marks and internal assessment of 10 marks.
- Time allowed will be 3 hours.
- There shall be 9 questions in all.
- The first question shall be compulsory and be short answer type containing 12 short questions spread over the whole syllabus and to be answered in about 25 to 30 words. The candidate is required to attempt any 9 short answer type questions carrying 2 marks (9x2 = 18 marks).
- Rest of the paper shall contain 4 units. Each unit shall have two questions and the candidates shall be given internal choice i.e. the candidates shall have two questions and the candidates shall attempt one question from each unit i.e. four questions in all. Each question will carry 18 marks (4x18 = 72 marks).

**(D) Course Content:****Unit – I**

Crime: Concept, Characteristics and Classification.

Causative factors of Crime.

Crime Statistics in India: Sources and Problems.



## **POLICE ADMINISTRATION**

**B.A. (HONOURS) 4th Semester EXAMINATION, 2016-17**

### **SEMESTER-IV**

#### **Paper : Correctional Administration**

##### **(A) Course Objectives:**

The Prime objective of this course is to familiarize the students with the meaning, nature , scope and principle of correctional administration. In addition the efforts are made to discuss with the students, Prison administration along with the alternative non-institutional methods of Probation and Parole elaborately.

##### **(B) Pedagogy of the Course Work:**

90 per cent of the Course Content would be delivered through Lecture Method and rest 10 per cent would comprise of :

- i. Internal Test-5%;
- ii.

**Unit-IV**

Prison Reforms in India.

Open Prisons: Concept, Origin and Advantages.

Prisons and Human Rights.

**Essential Readings**

1. Paranjpe, N.V. : Criminology and Penology, Central Law Publication, Allahabad, 2008
2. Ahuja, R. : Criminology, Rawat Publication, Jaipur, 2008
3. Abadinsky, Howard : Organized Crime, Wordsworth- Thomson Learning Academy Resources Centre, C.A., 2003
4. Davies, Martin : Prisoners of Society: Attitudes and After-Care.
5. Singh Deipa, Singh K P : Criminology, Penology and Victimology, The Bright Law House, New Delhi, 2013

**Further Readings**

1. Abadinsky, Howard : Organized Crime, Wordsworth- Thomson Learning Academy Resources Centre, C.A. 2003
2. Hassine, Victor : Life without Parole: Living in Prison Today, Roxbury Publishing Company, California, 2004.
3. Carrbine, Eamonn. et.al. : Criminology: A Sociological Introduction, Routledge, London, 2005.
4. Pollock, Joyceyn M. : Prisons and Prison Life : Costs and

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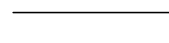
**MUSIC (VOCAL AND INSTRUMENTAL)**

**B.A. (HONOURS) SECOND YEAR EXAMINATION, 2016-17**

**SEMESTER-III**

**General Instructions**

- 1) In case of the private candidates, there will be no internal assessment and the marks obtained in the external assessment of the practical examination shall be proportionately increased.
- 2) Harmonium will not be allowed as accompaniment in vocal music, but harmonium can be used while singing Alankars.
- 3) The candidate can take vocal music along with instrumental music.
- 4) The candidate can also take instrumental music with tabla.
- 5)



**PAPER-A: THEORY (Duration 45 minutes, 02 Theory periods per week)****UNIT-I**

1. Concept and characteristics of Raga Dhyam.
2. Role of computer to promote Indian Classical Music
3. Brief biographical sketches and contributions towards music of the following Musicians:
  - (a) Ustad Mushtaq Ali Khan.
  - (b) Ustad Alladiya Khan.
4. Description and Comparative study of Detailed and Non-detailed Ragas
  - (a) Detailed Ragas :  
Hamir, Darbari
  - (b) Non-detailed Ragas :  
Adana, Kamod

**UNIT-II**

1. Detailed Study of Ghranas of the following:
  - (a) Khayal Gayan
  - (b) Sitar Vadan.
2. A study of the following:-  
Thumri, Masitkhani, Razakhani Gat, Trivat
3. Brief Knowledge of the following:-  
Nada, Swara, Shruti, Nyas, Vadi, Laya & Tala,
4. A study of Jati Lakshan

**UNIT-III**

1. Description & Notation of Detailed & Non-detailed Ragas and Taalas
  - A)
    - i) Notation of Khayal/Gat
    - ii) Notation of Taal prescribed in the syllabus
  - B) Objective type questions

**Paper-II: Practical (Ch06.3971(n)6.0241(d)-6. .34944( )-24f2-15.060m93.048252TL T\*[ ]-2906.63(i)0.9 -6.02664iona5( )-2(U)-**

**Part-A: (CHOICE OF THE CANDIDATE)**

- (a) A candidate has to demonstrate in the Raga









## **HOME SCIENCE**

The syllabus of Home Science for B.A./B.Sc. (Honours) Second year

**PHYSICS****B.Sc. (HONOURS) SECOND YEAR (3<sup>rd</sup> and 4<sup>th</sup> Semester) EXAMINATION, 2016-17****General Instructions for teachers, students and paper setters:**

1. There will be two papers in each of the Semesters III-IV. Each of the papers is allocated 25 marks including 3(three) marks for the Internal Assessment. The teaching hours for each paper are prescribed to be 30 hours and Physics Practical and Computational Physics are prescribed to be 60 hours.
2. The number of lectures per week will be three for e



**Unit II****Digital Electronics**

**Number systems:** Binary, Hexadecimal and octal number systems, Interconversions and Binary arithmetic, 2's complement arithmetic, Binary fractions and negative binary numbers, floating point representations, Codes, Error detecting and correcting codes.

**Digital Principles and Logic:** Digital signals, Positive and Negative Logic, Basic digital circuits, Basic Gates – NOT, OR, AND; Universal Logic gates: NOR, NAND; Exclusive-OR gate.

**Combinational Logic Circuits** – Boolean Laws and De Morgan's theorems, Sum of Product method, Product of sums method, Karnaugh map (up to 4 variables).



**Paper IV : Mathematical Physics****Unit I**

**Differential Equations :** Methods of separation of variables; separation of Helmholtz equation in Cartesian, spherical and cylindrical coordinates. Laplace equation in various coordinate systems, Ordinary and singular points; Examples of partial differential equations in physics, Heat Flow in one and two Dimensions.

Series solution of differential equations - Power series solution about ordinary point and regular singular point.

**Special Functions in Physics :** Dirac delta function, properties of delta function. Gamma function, factorial notation and applications. Beta function.

(Book 1 and Book 2)

**Unit II****Special polynomials in Physics :**

Bessel's differential equation, Bessel functions of first kind, generating function, recurrence formulae, plots, zeros of Bessel functions and orthogonality.

Legendre's equation, Legendre's polynomials, plots, generating functions, recurrence relations, orthogonality, Series expansion of a function in terms of a complete set of Legendre functions, Rodrigues formula.

(Book 1 and Book 2)

Laplace transforms, Applications of Laplace transforms to derivatives and integrals, s-domain interpretation of passive circuit elements R, L and C; Analysis of simple circuits in s-domain, Transfer function, poles and zeros, Stability of circuit.

**Recommended Books:**

1. Mathematical Physics: P.K. Chatopadhyay (Wiley Eastern, New Delhi, 2005)
2. Mathematical methods for Physicists : G. Arfken and H.J. Weber (Academic Press, SanDiego, sixth edition, 2005)
3. Circuit theory Fundamentals and Applications : Aram Budak (Prentice-Hall, 1987).

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**Unit-IV****Stereochemistry II:**

(05 Lectures)

Hard Soft Acid Base principles: pka Values. Generation of Carbon Nucleophiles by Deprotonation, Regio selectivity and stereo selectivity in enolate formation, Medium effects, O versus C as site of alkylation, examples of Stork enamine reactions.

**Instructions for paper setters and candidates :**

- (i) *Examiner will set total of NINE questions comprising TWO questions from each unit and ONE compulsory question of short answer type covering whole syllabi.*

**Unit-II****Elementary Concepts II:**

(05 Lectures)

Terms of mean, median, precision and accuracy in chemical analysis, types of errors in analysis, determining accuracy of methods, improving accuracy of analysis, data treatment for series involving relatively few measurements, least square curve fitting, propagation of errors, significant figure convention, standard deviations, confidence limits.

Theory of volumetric and gravimetric methods of analysis, primary and secondary standards, theory of indicators and their selection for titrations, precipitation methods, optimum conditions for precipitation,

**CHEMISTRY****B.Sc. (HONOURS) SECOND YEAR EXAMINATION, 2016-17****Outlines of Tests****SEMESTER - IV**

<i>Lecture Hours</i>	<i>Marks</i>	
	<i>Theory</i>	<i>Internal Assessment</i>

**Unit-IV****Pericyclic Reactions II:**

(05 Lectures)

(4+2) and (2+2) cycloadditions, exo and endo isomers, Examples Bicyclo (2, 2, 1) heptane and Bicyclo (2, 2, 2,) octane systems. Intramolecular Diels Alder reaction.

*Sigmatropic Rearrangements* Woodward and Hoffmann rules, Frontier Molecular orbital for 1, 3; 1, 5 and 1, 7 shifts. Examples including vitamin D<sub>2</sub>



**BOTANY**





**Suggested Readings :**

o562(e)-19.5193(82523r)--

1. Copleand, R. A. Enzymes: A Practical Introduction to Structure, Mechanism and Data Analysis, VCH Publishers, New York, 1996.
2. Dryer, R.L. and Lata, G.F. Experimental Biochemistry, Oxford University Press, New York, 1989.
3. Galston, A.W. Life Processess In Plants, Scientific American Library, Springer-Verlag, New York USA, 1989.
4. Hooykaas, P.J.J., Hall M.A. and Libbenga, K.R. (eds.) Biochemistry and Molecular Biology of Plant Hormones, Elsevier, Amsterdam, The Netherlands, 1999.
5. Hopkins W.G. Introduction to Plant Physiology : John Wiley and Sons. Inc., New York, USA, 1995.
6. Moore, T.C. Research Experiences in Plant Physiology: A Laboratory Manual, Springer-Verlag, Berlin, 1974.
7. Moore, T.C. Biochemistry and Physiology of Plant Hormones (2<sup>nd</sup> edition), Springer-Verlag, New York, USA, 1989.

7. To determine the water potential of given tissue (any tuber).
8. To determine stomatal Index, stomatal frequency and percentage of leaf area open through stomata. Also study the effect of ABA on stomatal closure.
9. Effect of carbon dioxide concentration on the rate of photosynthesis.
10. To demonstrate that oxygen is evolved during photosynthesis.

**Paper -B: DEVELOPMENT OF PLANTS AND THEIR UTILIZATION-I**

**Objective:**

This paper deals with internal structure of various plant parts, their growth and development patterns. It gives an insight into plant domestication and role of wild plants in ecosystem functioning.

**Teaching Methodology:**

Teaching methodology includes series of lectures, making use of charts, transparencies, LCD, Models, slides, practical demonstrations, extension lectures from experts, field visits, discussions, quiz competitions etc. In practicals, students would be provided with fresh/preserved materials for their morphological and anatomical studies making use of microscopes and binoculars and hands-on tools/equipment etc.

**UNtas**

3.

**Guidelines for Botany Practical Examination:**

<b>Max. Marks:</b>	<b>20</b>
<b>Practical:</b>	<b>18</b>
<b>Int. Assessment:</b>	<b>2</b>
<b>Time:</b>	<b>3 hrs.</b>

- Q.1. Write procedure and precautions for Physiology experiment A. Perform the experiment, record observations calculation if any and results. Show the experiment to the examiner. 5
- Q.2. Write illustrated morphological note on specimens B & C. 4

**BOTANY**  
**SEMESTER-IV**

**PAPER-A: PLANT ECOLOGY**

**Objective:** This paper deals with the role of environment in causing structural and functional variations in plants. It provides a broad idea about concept of population, community, ecosystem, ecological succession and role of plant indicators in environment monitoring.

**Teaching Methodology:** Teaching methodology includes series of lectures, making use of charts, transparencies, LCD, Models, slides, practical demonstrations, extension lectures from experts, field visits, discussions, quiz competitions etc. In practical, students would be provided with fresh/preserved materials for their morphological and anatomical studies making use of microscope and binoculars and hands-on tools/equipment etc.

**UNIT- I**

**Introduction :** Holocoenotic nature of environment; limiting factors; ecological amplitude triggering factors (soil, water, atmosphere).

**Ecological Adaptations:** Concept, ecads, ecotypes and ecoclines; adaptations in relation to soil oligotrophy; adaptive significance of photosynthetic pathways.

**Population :** Concepts; density and pattern; idealized plant life history; population growth; carrying capacity; population regulation; r and k selection; population interactions.

**UNIT- II**

**Suggested Readings :**

1. Barbour, M.G., Burk, J.H. and Pitts, W.D., Terrestrial Plant Ecology, Benjamin/Cummings, Publications Co., California, 1987.
- 2.

B.A. /B.SC.(HONOURS) SECOND YEAR (SEMESTER SYSTEM) SYLLABUS 2016-2017

**Suggested Laboratory Exercises**

1. Study of vegetative and reproductive morphology and anatomy of wheat, rice, maize, sorghum, bajra, potato and sugarcane. Study of starch grains in these plants (except in sugarcane). Epidermal structure of sugarcane stem and leaves. Tests for sucrose.
2. Study of vegetative and floral morphology, and pod development in chickpea and red gram.
3. Study of structure of oil storing tissues in sectioned seeds of mustard, groundnut and soyabean, and coconut endosperm, using micro-chemical tests.
4. Study of wood anatomy of ring-porous, diffuse porous woods using hand sections or prepared slides. Understanding of wood anatomy using T.S., T.L.S. and R.L.S. in five timber yielding species (*Tectona*,



**ZOOLOGY****B. Sc. (HONOURS) SECOND YEAR EXAMINATION, 2016-17****SEMESTER-III****PAPER I : ENVIRONMENTAL BIOLOGY-I**

Max. Marks	: 40
Theory Exam.	: 36 marks
Internal Assessment	: 4 marks
Time	: 3 hrs.

*Note* Nine questions are to be set. Question No.1 is compulsory consisting of short answer type questions covering the whole syllabus. It will have 8 parts of 1 marks each. Two questions are to be set from each Unit. One question is to be attempted from each Unit. In all, Five questions are to be attempted including compulsory one. 50% of the questions are to be split up into 2-4 sub-parts.

**UNIT-I**

1. **Environment** : Introduction and components.
2. **Ecological Concepts** : Ecosystem: Types food chains, food web, energy flow.

**UNIT-II**

3. **Biogeochemical cycles**
4. **Ecological succession**

**UNIT-III**

5. **Pollution: Types** - Air, water, land, thermal and noise pollution.
  - (a) *Sources of Pollution* Sewage, industrial wastes, silt, fertilizers, detergents, oils, pesticides, smoke, exhaust gases from automobiles, smog, acid rains, radioactive elements etc.
  - (b) *Pollution in India* Major polluted rivers and their sources of pollution, air pollution in major cities.
  - (c) *Hazards of Pollution* Effects of pollution on plants and animals.

**UNIT-IV**

6. (a) *Control of Pollution* Primary, secondary and tertiary treatment, standards for the quality of drinking water.
- (b) Bioremediation









**Suggested Readings :**

1. Odum, E.P. : *Fundamentals of Ecology*, W.B. Saunders Co., Philadelphia, 1971.
2. Melanby, K. : *The Biology of Pollution, Studies in Biology*, No. 38, Edward Arnold (Publishers) Ltd., 41, Bedford Square, London, 1980.
3. Louis, K. : *River Pollution*, Butterworths, 1969.
4. Dix, H.M. : *Environmental Pollution, Atmosphere, Land, Water and Noise*, (Institution of Environmental Science) Wiley, 1981.
5. Mani, M.S. : *Ecology and Biogeography of India*, Dr. W. Junk B.V. Publishers, The Hague, 1974 .
6. Kendeigh, S.C. : *Ecology with Special Reference to Animals and Man*, New Jersey, Prentice Hall Inc, 1974.

**Paper II : MOLECULAR BIOLOGY-II****UNIT-I**

1. **Mutations** : Types of mutations, physical and chemical mutagens and their mode of action on DNA.
2. **Bioenergetics** : Types of energy and their transformation, first and second law of thermodynamics.

**UNIT-II**

3. Factors governing chemical reactions, generation and function of ATP, biocatalysts; role of enzymes in cellular reactions. Types of major enzymes, Apoptosis.
4. **Regulation of Gene Expression** : Concept of operon, induction and repression in Prokaryotes, gene regulation in eukaryotes.

**UNIT-III**

5. **Molecules of Cellular Defence** : Structure and function of antibody, major histocompatibility antigens, HLA system. Genetic basis of antibody diversity.

**UNIT-IV**

6. **Molecular Basis of Inborn Errors of Metabolism** : Genetic basis of carbohydrates and amino acid metabolism, galactosemia and Phenylketonuria.
7. **Recombinant DNA** : Restriction endonucleases, Plasmids, cloning of DNA, use of recombinant DNA technology.

**Books Recommended :**

- 1 Alberts, B. Bray, D., Lewis, J., Raff, : *Molecular Biology of the Cell*, Garland  
M., Robert, K. and Watson, J.D. Publications, New York,1983.
- 2 DeRobertis, E.M.F. Jr. : *Essentials of Cell and Molecular Biology*, Halt-  
Saunders, Japan, 1981.
- 3 DeRobertis, E.D.P. and DeRobertis, : *Cell and Molecular Biology*, 8<sup>th</sup> Edition,  
E.M.F. Halt Saunders, Tokyo, 1987.
- 4 Gardner, E.J., Simmons, M.J. : *Principles of*  
and Snustad, D.P. <sub>32na</sub> : *Principles of*

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**The scheme for the conduct of Practical Examination.**

Based on Theory Papers I & II of B.Sc. (Honours) IV Semester

Max. Marks	:	20
Practical Exam.	:	18 marks
Internal Assessment	:	2marks

- I. Record biota in the given sewage samples. Draw labeled sketches & demonstrate these to the examiner. (3)
- II. Examine water sample for biotic communities from particular zone of lake, sketch and demonstrate. (3)
- III. Identify the given chart/diagram. Write a brief note on it. (2)
- IV. Study the effect of ..... on the given animal. Write the procedure followed. (2)
- V. Make a chromosomes preparations of the onion root tip. Draw a label diagram of any stage of mitosis and show it to the Examiner. (3)
- VI. Viva-Voce. (2)
- VII. Note Book and Charts. (3)