

(Including Book-Details)
Semester-wise w.e.f.2022-23

SCHEME & SYLLABUS FOR BACHELOR OF ARTS

**(THREE YEARS DEGREE PROGRAMME)
B. A.-IInd Year (ARTS)**

(3rd & 4th Semester)
(Batch 2022-25 & onwards)

(THROUGH DISTANCE EDUCATION)



Directorate of Distance Education

**GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY
HISAR-125001 (HARYANA)**

Note: For New Batch 2022 onwards (Semester Scheme)

B.A. IInd Year 3rd & 4th Semester

Guru Jambheshwar University of Science & Technology, Hisar

Scheme for Theory Based Subjects

Guidelines for Scheme of examination of UG Course

ENGLISH (COMPULSORY) (under semester system)

The Scheme of Examination of undergraduate (UG) Courses under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under 80: 20 (external: internal) for theory based courses. Pass percentage will be

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 20 marks based on the entire syllabus. It will comprise of ten short answer type questions of two marks each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) up to four units depending on the subject). All remaining questions shall carry equal marks.

Scheme: 80:20 (external: internal)

1st question=20 marks (10 short answer type questions of two marks each)

Rest four questions: 15 marks each i.e. 4 x 15=60

Total = (20+60) + 20 = 100 marks

Components of Internal Assessment (Breakdown of 20 marks)

2 Assignments: 10 marks each

Guru Jambheshwar University of Science & Technology, Hisar

ENGLISH (COMPULSORY)

B.A. IInd Year 3rd & 4th Semester

Scheme

(w.e.f. the academic session 2022-23)

3rd Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
Paper A	ENG C 201	English Compulsory	80	20	100	3 Hrs

4th Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
Paper A	ENG C 202	English Compulsory	80	20	100	3 Hrs

Guru Jambheshwar University of Science & Technology, Hisar
ENGLISH (COMPULSORY)
B.A. IInd Year 3rd Semester

PAPER-A

ENG C 201 : English (Compulsory)

Maximum Marks : 100

Time : 3 hours

External Marks : 80

Internal Assessment : 20

Note :-

1. The question paper will consist of **nine** questions. The candidate shall attempt **five** questions in all. The Question No. 1 will be **compulsory**. The Candidate shall attempt four more questions selecting at least one from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing **ten** questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Text Prescribed — ENG C 101: Fragrances: A Textbook of Poetry and Language Skills

Edited by: Dinesh Kumar, Sunita Siroha and Sukhwinder Singh Rehal.

Publishers: Orient Blackswan

SCHEME OF QUESTION PAPER

Note: The question paper will carry a maximum of 80 marks. The paper will have five questions as per details given below.

- Q 1. This question is compulsory and consist ten questions of two marks each. 20 Marks
- Q 2. This question will be designed to assess the understanding of the text by the students. The students shall answer any three out of the given five questions in about 150 words each). 15 Marks
- Q 3. (a) This question will be based on References to the Context (one out of two). 8 Marks
 (b) This question will be based on vocabulary from the exercises following the chapters. The students shall attempt questions on vocabulary as directed. (e.g. framing sentences of their own or giving various forms of the given words, synonyms, antonyms, one word substitutes). The students shall answer any seven out of the given twelve words. 7 Marks
- Q 4. (a) This question will be based on phonetic transcription given in the chapters in the textbook. The students shall transcribe eight words out of the given twelve. (For blind candidates only):- There will be a question based on vocabulary exercises 5 Marks
 (b) The students shall write an email on any relevant topic with internal choice. 5 Marks
 (c) One question on poetic forms/devices. The student will be required to attempt one out of the given two. The candidates may be asked to identify devices/forms on the basis of extracts from poem.

5 Marks

- Q 5. (a) This question will be based on the grammar topics discussed in the textbook. The sentences will not necessarily be the same as given in the exercises. Student will be required to attempt any fifteen out of the given twenty.

15 Marks

Suggested Reading/Reference Books:

1. Azar, Betty, *Longman Fundamentals English Grammar* (Longman, 2003).
2. Hornby, A. S., *Oxford Advanced Learner's Dictionary* (Oxford University Press, 2015).
3. Lester, Mark, *English Grammar Drills* (McGraw-Hill, 2009).
4. Murphy, Raymond, *English grammar in use: a self-study guide* (Cambridge University Press, 1994).
5. Nesfield, J. C. *English Grammar Composition and Usage* (2001).
6. Nesfield, J. C. *Modern English Grammar* (MacMillan).
7. Swan, Michael, *Practical English Usage* (Oxford, 2013).
8. *The New Roget's Thesaurus in Dictionary Form* (Penguin).
9. Thomson, A. J., *A Practical English Grammar* (Oxford University Press, 1986).
10. Wood, F. T., *A Remedial English Grammar for Foreign Students* (MacMillan, 2015).

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Guru Jambheshwar University of Science & Technology, Hisar

ENGLISH (COMPULSORY)

B.A. IInd Year 4th Semester

PAPER-A

ENG C 202 : English (Compulsory)

Maximum Marks : 100

Time : 3 hours

External Marks : 80

Internal Assessment : 20

Note :-

1. The question paper will consist of **nine** questions. The candidate shall attempt **five** questions in all. The Question No. 1 will be **compulsory**. The Candidate shall attempt four more questions selecting at least one from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing **ten** questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Text Prescribed — ENG C 102: Centre Stage: A Textbook of Plays and Language Skills

Edited by: Sunita Siroha, Sukhwinder Singh Rehal and Dinesh Kumar


Publishers: Orient Blackswan

SCHEME OF QUESTION PAPER

Note: The question paper will carry a maximum of 80 marks. The paper will have five questions as per details given below.

- Q 1. This question is compulsory and consist ten short answer type questions of two marks each. 20 Marks
- Q 2. This question will be designed to assess the understanding of the text by the students. The students shall answer any three out of the given five questions in about 150 words each). 15 Marks
- Q 3. (a) This question will be based on References to the Context (one out of two). 5 Marks
(b) Vocabulary exercise (any five out of the given eight). 5 Marks
(c) This question will be base on transcription with stress. Students will be required attempt any seven out of the given ten words.
(For blind candidates only):- There will be a question based on vocabulary. 5 Marks
- Q 4. (a) Translation one short paragraph from Hindi to English. 15 Marks
(b) Translation one short paragraph from English to Hindi.
- Q 5. Writing Skills: This question with internal choice will be based on the topics discussed in the textbook under the title "Extended Language Skills" except "Translation". 15 Marks

Suggested Reading/Reference Books:

1. Azar, Betty, *Longman Fundamentals English Grammar* (Longman, 2003).
 2. Hornby, A. S., *Oxford Advanced Learner's Dictionary* (Oxford University Press, 2015).
 3. Lester, Mark, *English Grammar Drills* (McGraw-Hill, 2009).
 4. Murphy, Raymond, *English grammar in use: a self-study guide* (Cambridge University Press, 1994).
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Guru Jambheshwar University of Science & Technology, Hisar

Scheme for Theory Based Subjects

Guidelines for Scheme of examination of UG Course

Hindi (Compulsory) (under semester system)

The Scheme of Examination of undergraduate (UG) Courses under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under 80: 20 (external: internal) for theory based courses. Pass percentage will be

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations, five questions are to be set by the examiner. The candidates shall attempt all five questions. First question will be compulsory of 20 marks based on the entire syllabus. It will comprise of ten short answer type questions of two marks each. Students are required to attempt rest four questions in which internal choice will be available. All remaining four questions shall carry equal marks i.e. 15 each.

Scheme: 80:20 (external: internal)

1st question=20 marks (10 short answer type questions of two marks each)

Rest four questions: 15 marks each i.e. 4 x 15=60

Total = (20+60) + 20 = 100marks

Components of Internal Assessment (Breakdown of 20 marks)

2 Assignments: 10 marks each

Guru Jambheshwar University of Science & Technology, Hisar

Hindi (Compulsory)

B.A. IInd Year 3rd & 4th Semester

Scheme of Examination

(w.e.f. the academic session 2022-23)

3rd Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
B.A. Hindi Paper-A Theory	HINC 201	Hindi Compulsory	80	20	100	3Hrs

4th Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
B.A. Hindi Paper-A Theory	HINC 202	Hindi Compulsory	80	20	100	3Hrs

गुरुजम्भेश्वर विज्ञान एवं प्रौद्योगिकी विश्वविद्यालय, हिसार

पाठ्यक्रम (हिन्दी अनिवार्य)

बी.ए. द्वितीय वर्ष तृतीय सेमेस्टर

(HINC 201: हिन्दी अनिवार्य)

कुल अंक : 100

समय : 3 घण्टे

लिखित परीक्षा अंक : 80

आन्तरिक मूल्यांकन अंक : 20

- आधुनिक हिन्दी कविता
 - हिन्दी साहित्य का रीतिकाल
 - प्रयोजनमूलक हिन्दी : हिन्दी कम्प्यूटिंग और अनुवाद
 - पाठ्यक्रम में निर्धारित कवि:
 - पाठ्यक्रम में निर्धारित कवियों की सप्रसंग व्याख्या एवं उनके साहित्यिक परिचय पर परीक्षा में प्रश्न पूछे जाएंगे।
- 1 आलोचनात्मक प्रश्न पाठ्यक्रम में निर्धारित कवियों के अनुभूतिगत वैशेष्य तथा अभिव्यक्तिगत सौष्ठव पर ही परीक्षा में प्रश्न पूछे जाएंगे।
 - 2 हिन्दी साहित्य का रीतिकाल
 - रीतिकालीन हिन्दी कविता की पृष्ठभूमि/रीतिकाल की परिस्थितियाँ
 - रीतिकाल का नामकरण
 - रीतिबद्ध काव्य की विशेषताएँ
 - रीति मुक्त काव्य की विशेषताएँ
 - रीतिकालीन काव्य की उपलब्धियाँ
 - 3 प्रयोजन मूलक हिन्दी : हिन्दी कम्प्यूटिंग और अनुवाद
 - पाठ्यक्रम में निर्धारित विषय
 - कम्प्यूटर : स्वरूप और महत्व
 - ई-मेल : प्रेषण-ग्रहण
 - इंटरनेट : स्वरूप और उपयोगिता
 - अनुवाद : परिभाषा और स्वरूप, भूमिका, महत्व/प्रकार
 - मशीनी अनुवाद
 - 4 वस्तुनिष्ठ प्रश्न-आधुनिक हिन्दी कविता, रीतिकाल, प्रयोजनमूलक हिन्दी : हिन्दी कम्प्यूटिंग एवं अनुवाद।

पाठ्यक्रम निर्देश और अंक विभाजन

1. सम्पूर्ण पाठ्यक्रम से दस वास्तुनिष्ठ प्रश्न परीक्षा में पूछे जाएंगे। प्रत्येक प्रश्न के लिए 2 अंक होंगे। पूरा प्रश्न 20 अंक का होगा इस प्रश्न में कोई विकल्प नहीं दिया जाएगा। परीक्षार्थी को दस-पंद्रह शब्दों में उत्तर लिखना होगा।
2. (क) पाठ्यक्रम में निर्धारित पुस्तक 'आधुनिक हिन्दी कविता' से व्याख्या के लिए चार पद्यांश दिए जाएंगे परीक्षार्थियों को दो पद्यांशों की सप्रसंग व्याख्या करनी होगी प्रत्येक व्याख्या 5 अंक की होगी। पूरा प्रश्न 10 अंक का होगा।
(ख) पाठ्यक्रम में निर्धारित कवियों में से दो कवियों का साहित्यिक-परिचय दिया जाएगा। परीक्षार्थियों को एक कवि का साहित्यिक परिचय लिखना होगा यह प्रश्न 5 अंक का होगा।
3. (क) निर्धारित पाठ्य पुस्तक से दो आलोचनात्मक प्रश्न दिए जाएंगे, परीक्षार्थियों को एक प्रश्न का उत्तर लिखना होगा इसके लिए निर्धारित अंक 7 होंगे।
(ख) परीक्षा में चार लघुत्तरी प्रश्न दिए जाएंगे परीक्षार्थियों को इनमें से दो के उत्तर लिखने होंगे। प्रत्येक प्रश्न के 4 अंक होंगे और पूरे प्रश्न के लिए 8 अंक होंगे।
4. (क) रीतिकाल पर आधारित दो प्रश्न दिए जाएंगे, परीक्षार्थियों को इनमें से एक का उत्तर लिखना होगा जिसके लिए 7 अंक निर्धारित हैं।
(ख) रीतिकाल पर चार लघुत्तरी प्रश्न पूछे जाएंगे, परीक्षार्थियों को दो के उत्तर लिखने होंगे प्रत्येक प्रश्न के लिए 4 अंक और पूरा प्रश्न 8 अंक का होगा।
5. (क) प्रयोजनमूलक हिन्दी कम्प्यूटिंग और अनुवाद खण्ड से दो प्रश्न दिए जाएंगे। परीक्षार्थी को इनमें से एक लिखना होगा। जिसके लिए 7 अंक निर्धारित होंगे।
(ख) प्रयोजनमूलक हिन्दी कम्प्यूटिंग और अनुवाद के अन्तर्गत उपविषयों पर चार लघुत्तरी प्रश्न दिए जाएंगे, परीक्षार्थियों को दो प्रश्नों के उत्तर लिखने होंगे प्रत्येक प्रश्न 4 अंक का होगा पूरा प्रश्न 8 अंक का होगा।

गुरुजम्भेश्वर विज्ञान एवं प्रौद्योगिकी विश्वविद्यालय, हिसार

पाठ्यक्रम (हिन्दी अनिवार्य)

बी.ए. द्वितीय वर्ष चतुर्थ सेमेस्टर

पेपर: ए

HINC 202 : हिन्दी अनिवार्य

लिखित परीक्षा अंक : 80

आन्तरिक मूल्यांकन अंक : 20

कुल अंक : 100

समय : 3 घण्टे

- कथाक्रम : संपादक डॉ. रोहिणी अग्रवाल
- हिन्दी साहित्य का आधुनिक काल : गद्य
- पारिभाषिक शब्दावली
- वस्तुनिष्ठ प्रश्न
- (क) पाठ्यक्रम में 'कथाक्रम' से निर्धारित रचनाएं (कहानियाँ)
 1. ईदगाह : प्रेमचन्द
 2. पुरस्कार : जयशंकर प्रसाद
 3. मैग्रीन : सच्चिदानन्द हीरानन्द वात्स्यायन अज्ञेय
 4. मलबे का मालिक : मोहन राकेश
 5. ठेस : फणीश्वरनाथ रेणु
 6. फौसला : मैत्रेयी पुष्पा
 7. पच्चीस चौका डेढ़ सौ : औमप्रकाश वाल्मीकि

- (ख) हिन्दी साहित्य का आधुनिक काल :
गद्य पाठ्यक्रम में निर्धारित आलोचनात्मक प्रश्न

- - आधुनिक काल की परिस्थितियाँ
- - हिन्दी उपन्यास उद्भव और विकास
- - हिन्दी कहानी उद्भव और विकास
- - हिन्दी नाटक उद्भव और विकास
- - हिन्दी निबंध उद्भव और विकास

- (ग) पारिभाषिक शब्दावली के निर्धारित विषय

- पारिभाषिक शब्दावली का स्वरूप और महत्व
- पारिभाषिक शब्दावली के गुण
- पारिभाषिक शब्दावली के निर्माण में सक्रिय - विविध सम्प्रदाय :
राष्ट्रीयतावादी, अन्तर्राष्ट्रीयतावादी, समन्वयवादी।

- (घ) वस्तुनिष्ठ प्रश्न : कथाक्रम, हिन्दी साहित्य का आधुनिक काल :
गद्य, पारिभाषिक शब्दावली सम्पूर्ण पाठ्यक्रम में से दिए जाएंगे।

पाठ्यक्रम निर्देश और अंक विभाजन

1. सम्पूर्ण निर्धारित पाठ्यक्रम से दस वस्तुनिष्ठ प्रश्न पूछे जाएंगे। प्रत्येक प्रश्न के लिए दो अंक निर्धारित होंगे, पूरा प्रश्न 20 अंक का होगा। इस प्रश्न में कोई विकल्प नहीं होगा। परीक्षार्थियों को उत्तर 10-15 शब्दों में लिखना होगा।
- 2 (क) निर्धारित पाठ्यक्रम से चार गद्यांश दिए जाएंगे। परीक्षार्थियों को दो गद्यांशों की सप्रसंग व्याख्या करनी होगी, प्रत्येक व्याख्या के लिए 5 अंक होंगे व पूरा प्रश्न 10 अंक का होगा।
(ख) कथाक्रम में दिए गए कहानीकारों का साहित्यिक परिचय पर दो प्रश्न पूछे जाएंगे। परीक्षार्थियों को एक प्रश्न का उत्तर लिखना होगा। इस प्रश्न के लिए 5 अंक निर्धारित होंगे।
- 3 (क) निर्धारित पाठ्यपुस्तक के आलोचनात्मक प्रश्नों पर आधारित दो प्रश्न पूछे जाएंगे। परीक्षार्थियों को एक प्रश्न का उत्तर लिखना होगा। इस प्रश्न के लिए 7 अंक निर्धारित होंगे।
(ख) निर्धारित पाठ्य पुस्तक के आलोचनात्मक प्रश्नों में से चार लघुतरी प्रश्न पूछे जाएंगे। परीक्षार्थियों को इनमें से दो के उत्तर लिखने होंगे, प्रत्येक प्रश्न के लिए 4 अंक और पूरा प्रश्न 8 अंक का होगा।
- 4 (क) आधुनिक काल : गद्य पर आधारित पाठ्यक्रम में से दो प्रश्न पूछे जाएंगे। परीक्षार्थियों को इनमें से एक का उत्तर लिखना होगा, इसके लिए 7 अंक निर्धारित होंगे।
(ख) आधुनिक काल : गद्य पर आधारित चार प्रश्न पूछे जाएंगे। परीक्षार्थियों को दो प्रश्नों का उत्तर लिखना होगा। प्रत्येक प्रश्न 4 अंक का होगा और पूरा प्रश्न 8 अंक का होगा।
- 5 (क) पारिभाषिक शब्दावली पर आधारित तीन प्रश्न परीक्षा में पूछे जाएंगे। परीक्षार्थियों को इनमें से एक का उत्तर देना होगा, इसके लिए 7 अंक निर्धारित होंगे।
(ख) पारिभाषिक शब्दावली पर आधारित चार लघुतरी प्रश्न परीक्षा में पूछे जाएंगे। परीक्षार्थियों को इनमें से दो के उत्तर लिखने होंगे। प्रत्येक प्रश्न के लिए 4 अंक होंगे और पूरा प्रश्न 8 अंक का होगा।

Guru Jambheshwar University of Science and Technology, Hisar

Scheme for Theory Based Subjects

Guidelines for Scheme of examination of UG Course

Political Science (under semester system)

The Scheme of Examination of undergraduate (UG) Courses under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under 80: 20 (external: internal) for theory based courses. Pass percentage will be

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 20 marks based on the entire syllabus. It will comprise of ten short answer type questions of two marks each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) up to four units depending on the subject). All remaining questions shall carry equal marks.

Scheme: 80:20 (external: internal)

1st question=20 marks (10 short answer type questions of two marks each)

Rest four questions: 15 marks each i.e. 4 x 15=60

Total = (20+60) + 20 = 100 marks

Components of Internal Assessment (Breakdown of 20 marks)

2 Assignments: 10 marks each

Guru Jambheshwar University of Science & Technology, Hisar

POLITICAL SCIENCE

B.A. IInd Year 3rd & 4th Semester

Scheme of Examination

3rd Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
Paper-A Theory	POLS 202	(Option-II) Indian Political Thinkers-I	80	20	100	3Hrs

4th Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
Paper-A Theory	POLS 204	(Option-II) Indian Political Thinkers-II	80	20	100	3Hrs

Guru Jambheshwar University of Science & Technology, Hisar

POLITICAL SCIENCE

B.A. IInd Year 3rd Semester

PAPER-A (THEORY) POLS 202 : Indian Political Thinkers-I (Optional-II)

Maximum Marks : 100

Time : 3 hours

External Marks : 80

Internal Assessment : 20

Note:-

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Unit-I	Raja Ram Mohan Ray & Swami Dayanand
Unit-II	Swami Vivekanand & Aurbind Ghosh
Unit-III	Lala Lajpat Rai & Bal Gangadhar Tilak
Unit-IV	Dada Bhai Narojee & Gopal Krishan Gokhle
Readings	

1. A.S. Altekar, *State and Government in Ancient India*, Delhi, Motilal Banarsidass, 1966.
2. A.Appadorai, *Documents on Political Thought in Modern India*, 2 Vols., Bombay Oxford University Press, 1970.
3. S. Ghose, *Modern Indian Political Thought*, Delhi, Allied, 1984.
4. U.N. Ghoshal, *A History of Indian Political Ideas*, London, Oxford University Press, 1959.
5. K.P. Jayaswal, *Hindu Polity*, Calcutta, Butterworth, 1924.
6. R. P. Kangle, *Arthashastra of Kautilya*, Delhi, Motilal Banarsidass, 1965.
7. M.J. Kanetkar, *Tilak and Gandhi: A Comparative Study*, Nagpur, Author, 1935.
8. V.B. Karnik, M.N. Roy: *Political Biography*, Bombay, Jagriti, 1978.
9. K. P. Karunakaran, *Modern Indian Political Tradition*, New Delhi, Allied Publishers, 1962.
10. V.R. Mehta, *Foundations of Indian Political Thought*, New Delhi, Manohar, 1992.
11. T. Pantham, and K. Deutsch (eds), *Political Thought in Modern India*, New Delhi, Sage, 1986.
12. B. Parekh and T. Pantham (eds), *Political Discourse: Exploration in Indian and Western Political Thought*, New Delhi, Sage, 1987.
13. D.P. Roy, *Leftists Politics in India: M. N. Roy and the Radical Democratic Party*, Calcutta, Minerva, 1989.
14. B.S. Sharma, *The Political Philosophy of M.N. Roy*, Delhi, National Publishing House, 1965.
15. V.P. Verma, *Studies in Hindu Political Thought and its Metaphysical Foundations*, Delhi, Motilal Banarsidass, 1974.
16. A.S. Altekar, *State and Government in Ancient India*, Delhi, Motilal Banarsidass, 1966.
17. A.Appadorai, *Documents on Political Thought in Modern India*, 2 Vols., Bombay Oxford University Press, 1970.
18. S. Ghose, *Modern Indian Political Thought*, Delhi, Allied, 1984.
19. U.N. Ghoshal, *A History of Indian Political Ideas*, London, Oxford University Press, 1959.
20. K.P. Jayaswal, *Hindu Polity*, Calcutta, Butterworth, 1924.
21. R. P. Kangle, *Arthashastra of Kautilya*, Delhi, Motilal Banarsidass, 1965.
22. M.J. Kanetkar, *Tilak and Gandhi: A Comparative Study*, Nagpur, Author, 1935.
23. V.B. Karnik, M.N. Roy: *Political Biography*, Bombay, Jagriti, 1978.
23. K. P. Karunakaran, *Modern Indian Political Tradition*, New Delhi, Allied Publishers, 1962.
24. V.R. Mehta, *Foundations of Indian Political Thought*, New Delhi, Manohar, 1992.
25. T. Pantham, and K. Deutsch (eds), *Political Thought in Modern India*, New Delhi, Sage, 1986.
26. B. Parekh and T. Pantham (eds), *Political Discourse: Exploration in Indian and Western Political Thought*, New Delhi, Sage, 1987.
27. D.P. Roy, *Leftists Politics in India: M. N. Roy and the Radical Democratic Party*, Calcutta, Minerva, 1989.
28. B.S. Sharma, *The Political Philosophy of M.N. Roy*, Delhi, National Publishing House, 1965.
29. V.P. Verma, *Studies in Hindu Political Thought and its Metaphysical Foundations*, Delhi, Motilal Banarsidass, 1974.

Guru Jambheshwar University of Science & Technology, Hisar

POLITICAL SCIENCE

B.A. IInd Year 4th Semester

PAPER-A (THEORY) POLS 204 : Indian Political Thinkers-II (Optional-II)

Maximum Marks : 100
Time : 3 hours

External Marks : 80
Internal Assessment : 20

Unit-I	J.P. Narayan & Ram Manohar Lohia
Unit-II	Mahatma Gandhi & M.N. Roy
Unit-III	Jawaharlal Nehru & B.R. Ambedkar
Unit-IV	Subhash Chander Bose & Bhagat Singh

Readings

1. A. Appadorai, Indian Political Thinking Through the Ages, Delhi Khanna Publishers, 1992.
2. J. Bandhopadhyaya, Social and Political Thought of Gandhi, Bombay, Allied, 1969.
3. R.J. Cashman, The Myth of 'Lokmanya' Tilak and Mass Politics in Maharashtra, Berkeley, University of California Press, 1975.
4. Chandra, Nationalism and Colonialism in Modern India, Delhi, Vikas, 1979.
5. K. Damodaran, Indian Thought: A Critical Survey, London, Asia Publishing House, 1967.
6. D.G. Dalton, India's Idea of Freedom: Political Thought of Swami Vivekananda, Aurobindo Ghose, Mahatma Gandhi and Rabindranath Tagore, Delhi, Academic Press, 1982.
7. S. Ghose, The Renaissance to Militant Nationalism, Bombay, Allied Publishers, 1969.
8. S. Ghose, Socialism, Democracy and Nationalism in India, Bombay, Allied Publishers, 1973.
9. S. Ghose, Modern Indian Political Thought, Delhi, Allied, 1984.
10. U.N. Ghoshal, A History of Indian Political Ideas, London, Oxford University Press, 1959.
11. J.P. Hatcher, Communism and Nationalism in India: M.N. Roy and Comintern Policy, Princeton NJ, Princeton University Press, 1971.
12. Heimsath, Indian Nationalism and Social Reform, Princeton NJ, Princeton University Press, 1964.
13. R. Iyer, The Moral and Political Thought of Mahatma Gandhi, Delhi, Oxford University Press, 1973.
14. K.N. Kadam (ed.), Dr. B.R. Ambedkar, New Delhi, Sage, 1992.
15. K.P. Karunakaran, Modern Indian Political Tradition, New Delhi, Allied Publishers, 1962.
16. K.P. Karunakaran, Indian Politics from Dababhai Naoroji to Gandhi : A Study of Political Ideas of Modern India, New Delhi, Gitanjali, 1975.
17. U. Kaura, Muslims and Indian Nationalism, New Delhi, Manohar, 1977.
18. R.M. Lohia, Marx, Gandhi and Socialism, Hyderabad, Nav Hind, 1953.
19. V.R. Mehta, Foundations of Indian Political Thought, New Delhi, Manohar, 1992.
20. V.S. Narvane, Modern Indian Thought, New Delhi, Orient Longman, 1978.
21. J. Nehru, Discovery of India, London, Meridian Books, 1956.
22. D.P. Roy, Leftist Politics in India : M. N. Roy and the Radical Democratic Party, Calcutta, Minerva, 1989.
23. J. Sarkar, Indian Through the Ages : A Survey of the Growth of Indian Life and Thought, Calcutta, M.C. Sarkar and Sons, 1928.
24. B.S. Sharma, The Political Philosophy of M.N. Roy, Delhi, National Publishing House, 1965.
25. A. Tripathi, The Extremist Challenge, Bombay, Allied, 1967.
26. V.P. Verma, Modern Indian Political Thought, Agra, Lakshmi Narain Aggarwal, 1974



Guru Jambheshwar University of Science & Technology, Hisar

Scheme for Theory Based Subjects

Guidelines for Scheme of examination of UG Course

PUBLIC ADMINISTRATION (under semester system)

The Scheme of Examination of undergraduate (UG) Courses under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under 80: 20 (external: internal) for theory based courses. Pass percentage will be

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 20 marks based on the entire syllabus. It will comprise of ten short answer type questions of two marks each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) up to four units depending on the subject). All remaining questions shall carry equal marks.

Scheme: 80:20 (external: internal)

1st question=20 marks (10 short answer type questions of two marks each)

Rest four questions: 15 marks each i.e. 4 x 15=60

Total = (20+60) + 20 = 100 marks

Components of Internal Assessment (Breakdown of 20 marks)

2 Assignments: 10 marks each

Guru Jambheshwar University of Science & Technology, Hisar

PUBLIC ADMINISTRATION

B.A. IInd Year 3rd & 4th Semester

Scheme of Examination

3rd Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
Paper-A Theory	PUBA 201	Public Financial Administration	80	20	100	3Hrs

4th Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
Paper-A Theory	PUBA 202	Public Personnel Administration	80	20	100	3Hrs

Guru Jambheshwar University of Science & Technology, Hisar

PUBLIC ADMINISTRATION

B.A. IInd Year 3rd Semester

PAPER-A (THEORY) PUBA 201 : Public Financial Administration

Maximum Marks : 100

External Marks : 80

Internal Assessment: 20

Time : 3 hours

Note:-

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Course objectives:

The course aims to acquaint the students of public administration regarding various aspects of financial administration, particularly budgeting and its processes, financial institutions and resource mobilization strategies with special reference to India. Besides, the students would be made aware of various mechanisms of financial control over government.

UNIT – I

Public Budget: Concepts and Meaning

- Meaning and Significance of Financial Administration
- Budget: Concept and Principles
- Budget as an Instrument of Financial Administration
- Budget as an Instrument of Public Policy and Management

UNIT – II

Budget: Types and Processes

- Types of Budgets: Line-Item Budgeting, Performance Budgeting, Zero-Base Budgeting and Target Base Budgeting
- Budget Formulation and Enactment and Execution of Budget with special reference to India.

UNIT - III

Financial Institutions

- Union Ministry of Finance
- Finance Commission of India
- Comptroller & Auditor General (CAG)

UNIT – IV

Public Finance and Resource Mobilization and Financial Control

- Resource Mobilization: Tax and Non-Tax Sources
- Public Borrowing and Deficit Financing
- Legislative Control over Finances with special reference to parliamentary committees

Recommended Books and Readings

- B. Chakrabarty and P. Chand. 2012. *Public Administration in a Globalizing World: Theories and Practices*. New Delhi: Sage Publications
- Chand, P. 2010. *Control of Public Expenditure in India* (2nd ed.). New Delhi: Allied Publishers
- Chand, P. 2010. *Performance Budgeting* (2nd ed.). New Delhi: Allied Publishers
- Frank, Howard A. 2006. *Public Financial Management* (1st Edition). CRC Press, Taylor & Francis Group: New York
- Gupta, B N. 2006. *Indian Federal Finance and Budgetary Policy*. Chaitanya Publishing House: Allahabad
- Indian Institute of Public Administration. 1983. *Indian Journal of Public Administration*, Special Number on Administrative Accountability, Vol. XXIX (3).
- Lall, G.S. 1979. *Public Finance and Financial Administration in India*. New Delhi: Kapoor
- M. Bhattacharya. 2008. *New Horizons of Public Administration*. (5th Revised ed.). New Delhi: Jawahar Publishers
- Mahajan, Sanjeev Kumar and Anupama Puri Mahajan. 2014. *Financial Administration in India*. PHI Learning: New Delhi
- Nicholas Henry. 1999. *Public Administration and Public Affairs*. (6th ed.). New Delhi: Prentice Hall
- Rabin, Jack and Stevens, Glenn L. 2001. *Handbook of Fiscal Policy* (1st Edition). Routledge: London
- Sharma, M.P. 1960. *Public Administration Theory and Practice*. Allahabad: Kitab Mahal
- Sury, M.M. 1990. *Government Budgeting in India*. Commonwealth Publishers: New Delhi
- Thavaraj, M.J.K. 2001. *Financial Administration in India* (6th ed.). Delhi: Sultan Chand
- Thompson, Fred and Green, Mark T (Eds.) 1998. *Handbook of Public Finance* (1st Edition). Marcel Dekker: New York
- Wattal, P.K. 1963. *Parliamentary Financial Control of India*. Bombay: Minerva Book Shop

Guru Jambheshwar University of Science & Technology, Hisar

PUBLIC ADMINISTRATION

B.A. IInd Year 4th Semester

PAPER-A (THEORY)

PUBA 202 : Public Personnel Administration

Maximum Marks : 100

External Marks : 80

Time : 3 hours

Internal Assessment: 20

Note:-

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.

Objective: The course aims to procreate an understanding among students about the concept of public personnel administration, career systems and various processes/activities of personnel administration in India. The various issues in civil service such as ethics, code of conduct and disciplinary processes will also be taught to the students to generate a reasonable level of understanding about various facets of the human resource in the government.

UNIT – I

Conceptual Understating of Human Resources in the Public Sector-I

- Personnel Administration: Meaning, Nature and Significance
- Role of Public Services
- Classification of Civil Services – Concept and Bases

UNIT – II

Conceptual Understating of Human Resources in the Public Sector-II

- Bureaucracy: Concept, Characteristics and Types
- Recruitment
- Training and Promotion

UNIT – III

Public Personnel System in India - I

- Constitutional Provisions with regard to Civil Services in India
- Recruitment Agency at Centre Level: UPSC
- Performance Appraisal and Promotion Mechanism

UNIT – IV

Public Personnel System in India - II

- Service Conditions and Disciplinary Actions
- Administrative Ethics and Code of Conduct
- Administrative Tribunal and Recent Civil Services Reforms

Recommended Books and Readings

- B. Chakrabarty and P. Chand. 2012. *Public Administration in a Globalizing World: Theories and Practices*. New Delhi: Sage Publications
- Davar, Rustom S. 2008. *Personnel Management and Industrial Relations in India* (2nd Edition). Vikas Publishing House: New Delhi
- Flippo, E. 2008. *Principles of Personnel Management*. (4th ed.). Kogakusha: McGraw Hill
- Government of India, 2nd Administrative Reforms Commission. 2010. *10th Report: Refurbishing of Personnel Administration – Scaling New Heights*. New Delhi: Manager of Publications.
- Jack Rabin, Thomas Vocine, et.al. 2008. *Handbook of Public Personnel Administration*. Taylor & Francis, United Kingdom
- Koontz, H. and O'Donnell, Cyril. 2008. *Principles of Management*. (5th ed.). Tokyo: McGraw Hill.
- Nicholas Henry. 1999. *Public Administration and Public Affairs*. (6th ed.). New Delhi: Prentice Hall
- Pigors, P. and Myers, C.A. 1981. *Personnel Administration: A Point of View and a Method*. (9th ed.). Kogakusha: McGraw Hill.

- Saxena, A.P. 2010. *Training and Development in Government*. New Delhi.
- Sharma, M.P. 1960. *Public Administration Theory and Practice*. Allahabad: Kitab Mahal
- Stahl, O. Glenn. 1971. *Public Personnel Administration*. (6th ed.). New Delhi: Oxford and IBH Publishing.
- United Nations. 2008. *New Approaches to Personnel Policy for Development*. New York.

Guru Jambheshwar University of Science & Technology, Hisar

Scheme for Theory Based Subjects

Guidelines for Scheme of examination of UG Course HISTORY (under semester system)

The Scheme of Examination of undergraduate (UG) Courses under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under 80: 20 (external: internal) for theory based courses. Pass percentage will beFor the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 20 marks based on the entire syllabus. It will comprise of ten short answer type questions of two marks each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) up to four units depending on the subject). All remaining questions shall carry equal marks.

Scheme: 80:20 (external: internal)

1st question=20 marks (10 short answer type questions of two marks each)

Rest four questions: 15 marks each i.e. 4 x 15=60

Total = (20+60) + 20 = 100 marks

Components of Internal Assessment (Breakdown of 20 marks)

2 Assignments: 10 marks each

Guru Jambheshwar University of Science & Technology, Hisar

HISTORY

B.A. IInd Year 3rd & 4th Semester

Scheme

3rd Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
Paper-A Theory	HIST 201	Option-I Political History of India (1526-1857 A.D.)	80	20	100	3Hrs

4th Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
Paper-A Theory	HIST 203	Option-I Indian National Movement	80	20	100	3Hrs

Maximum Marks : 100

External Marks : 80

Internal Assessment : 20

Time : 3 hours

Note :-

3. The question paper will consist of **nine** questions. The candidate shall attempt **five** questions in all. The Question No. 1 will be **compulsory**. The Candidate shall attempt four more questions selecting at least one from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
4. The **Compulsory Question No.1** will be short answer type questions containing **ten** questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.
5. The Map Question will be carrying 15 marks (10 for map work and 5 for explanatory note). For visually disabled candidates, the part relating to the explanatory note will carry full marks.

Unit – I

Establishment of the Mughal Empire: Babur
Sher Shah Suri and His Administration
Akbar: Expansion of Empire and Religious Policy
Aurangzeb: Expansion of Empire and Religious Policy

Unit – II

Relations of Mughals with the Rajputs
Deccan Policy of the Mughals
Mughal Administration and Revenue System
Institutions: Mansabdari and Jagirdari
Decline of the Mughal Empire

Unit- III

Rivalry between the French and the British in India
Founding of the British Empire: Battles of Plessey & Buxer
Consolidation of the British Empire: Subsidiary Alliance System and Doctrine of Lapse;
Annexation of Punjab
Uprising of 1857: Causes, Events and Consequences

Unit – IV

Maps (India):

Political Conditions of India in 1526
Mughal Empire at the Death of Akbar (1605)
Mughal Empire at the Death of Aurangzeb (1707)
Expansion of British Empire upto 1856
Major Centres of the Uprising of 1857



Suggested Readings:

- | | |
|---|--|
| Ashraf, K.M. | Life and Conditions of the People of Hindustan (Delhi, 1965) |
| Ashraf, K.M. | Hindustan Ke Nivasiyon Ka Jivan Aur Paristhitiyan (Hindi) |
| Basham, A.L. | The Wonder That Was India, Vol. II |
| Bayly, C.A. | Indian Society and Making of the British Empire: The New Cambridge History of India, Vol. II |
| Burton, Stein | History of India (Oxford, 1998) |
| Burton, Stein | Vijayanagar (Cambridge, 1989) |
| Gordon, Stewart | The Marathas 1600-1818 : The New Cambridge History of India, Vol. V |
| Habib, Irfan | Medieval India, 4 Vols. |
| Habib, Muhammad and Nizami, K.A. | Comprehensive History of India, Vol. V (Delhi, 1970) |
| Hasan, Ibn | Central Structure of the Mughal India |
| Kulkarni, A. R. | Medieval Maharashtra |
| Kulke, H and D. Rothmund | History of India |
| Majumdar, Datta and Raychowdhary (eds.) | Advanced History of India |
| Pandey, A. B. | Later Medieval India |
| Richards, John F. | Mughal Empire: New Cambridge History of India, Vol. V |
| Rizvi, S.A.A | The Wonder That Was India, Vol. 2, (London 1987) |
| Satish Chandra | Medieval India: From the Sultanate to the Mughals |
| Satish Chandra | Madhyakalin Bharat (Hindi) |
| Satish Chandra | Mughal Religious Policies |
| Shastri, K.A.N. | History of South India (Delhi, 1975) |
| Shukla, R. L. (ed.) | Adhunik Bharat Kaitihas (Hindi) |
| Spear, T.G.P. | History of India, Vol. II |
| Tripathi, R. P. | Some Aspects of Muslim Administration |
| Tripathi, R. P. | Rise and Fall of Mughal Empire |
| Verma, H. C. | Madhyakalin Bharat, (Hindi) Vol-I & II |

Guru Jambheshwar University of Science & Technology, Hisar
History
B.A. IInd Year 4th Semester
PAPER-A (THEORY) HIST 203 : Indian National Movement (Option-I)

Maximum Marks : 100
External Marks : 80
Internal Assessment : 20
Time : 3 hours

Note :-

1. The question paper will consist of **nine** questions. The candidate shall attempt **five** questions in all. The Question No. 1 will be **compulsory**. The Candidate shall attempt four more questions selecting at least one from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing **ten** questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.
3. The Map Question will be carrying 15 marks (10 for map work and 5 for explanatory note). For visually disabled candidates, the part relating to the explanatory note will carry full marks.

Unit – I

Origins of the National Consciousness
Founding of Indian National Congress and Moderates
Extremists; Ideology, Programmes and Politics
Home Rule Movement

Unit – II

Role of Mahatma Gandhi in Freedom Movement: Non-Cooperation Movement, Civil Disobedience Movement and Quit India Movement
Ideology and Contribution of Revolutionaries with special reference to Bhagat Singh
Subhash Chandra Bose and Indian National Army

Unit- III

Political Reforms: Acts of 1909 and 1919
Rise of Communal Politics: Muslim League – Ideology and Politics
Poona Pact and the Act of 1935
Partition and Independence of India

Unit – IV

Maps (India):

Places of Important Sessions of Indian National Congress
Areas and Centers of Home Rule Movement
Areas and Centers of Civil Disobedience Movement
Important Centers of Revolutionary Movement
Areas and Centers of Quit India Movement



Suggested Readings:

- Bipan Chandra et. al.
 Bipan Chandra et. Al.
 Brown, Judith
 Chahal, S.K.
 Desai, A.R.
 Guha, Ranjit (ed.)
 Gupta, M.N.
 Hasan, Mushirul
 Hasan, Mushirul
 Majumdar, Datta and
 Ray Chowdhary
 Moon, Penderal
 Nanda, B.R.
 Nanda, B.R.
 Omvedt, Gail

 Pannikar, K.N.
 Rai, Satya M.
 Raychaudhuri, Tapan and Irfan
 Habib
 Sarkar, Sumit
 Spear, T. G. P.
 Sarkar, Sumit
 Shukla, R. L. (ed.)
 Tara Chand
 Tomlinson, B.R.
 Vajpeyee, J.N.
- Bharat Ka Swatantrata Sangharsh (Hindi)
 India's Struggle For Independence
 Gandhi's Rise to Power: Indian Politics 1915-1922
 Dalits Patronized
 Social Background of Indian Nationalism
 Subaltern Studies, Vol. I – XI
 History of the Revolutionary Movement in India
 India's Partition : Process, Strategy and Mobilization
 Nationalism and Communal Politics in India 1916-1928
 Advanced History of India

 Divide and Quit
 Gandhi : A Biography
 Jawaharlal Nehru : A Biography
 Dalits and Democratic Revolution : Dr. Ambedkar and Dalit
 Movement in Colonial India
 National and Left Movements in India
 Bharat Me Upniveshwad Aur Rashtrawad (Hindi)
 The Cambridge Economic History of India, Vol. I

 Modern India
 History of India, Vol. II
 Adhunik Bharat (Hindi)
 Adhunik Bharat Ka Ithas (Hindi)
 History of the Freedom Movement in India, Vols. I - IV
 Indian National Congress and the Raj, : 1929-1942
 Adhunik Bharat Ka Ithas (Hindi)

Guru Jambheshwar University of Science & Technology, Hisar

Scheme for Theory+Practical Based Subjects

**Guidelines for Scheme of examination of UG Course
Mathematics-B.A. Pass course (under semester system)**

The Scheme of Examination of under graduate (UG) Courses (**Theory-70 marks (Two Papers) + Practical-30 marks Based Subjects**) under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under (50 +20) +30 (External+ Internal + Practical) for practical based courses. Pass percentage will be...

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations regarding practical subjects, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 05 marks based on the entire syllabus. It will comprise of five short answer type questions of one mark each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) upto four units depending on the subject). All remaining questions shall carry equal marks.

Scheme:

Paper-I: 25 marks (External) + 10 marks (Internal)

Paper-II: 25 marks (External) + 10 marks (Internal)

Practical: 30 marks

1st question= 05 marks (05 short answer type questions of 1 mark each)

Rest four questions :05 marks each i.e. $04 \times 05 = 20$

Total = $(25+10+25+10)+30 = 100$ marks

Components of Internal Assessment (Break down of Internal marks in each Paper)

2 Assignments:10 marks each

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Mathematics

B.A. IInd Year 3rd & 4th Semester

Scheme of Examination

3rd Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Practical	Total Marks	Time
Paper A Theory	BAMH 201	Advanced Calculus	25	10	-	35	3 hrs
Paper B Theory	BAMH 202	Numerical Analysis	25	10	-	35	3 hrs
Paper C Practical	BAMH (P) 203	Mathematics Lab-III	-	-	30	30	3 hrs

4th Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Practical	Total Marks	Time
Paper A Theory	BAMH 204	Partial Differential Equations & Special Functions	25	10	-	35	3 hrs
Paper B Theory	BAMH 205	Mechanics-I	25	10	-	35	3 hrs
Paper C Practical	BAMH (P) 206	Mathematics Lab-IV	-	-	30	30	3 hrs

Guru Jambheshwar University of Science & Technology, Hisar

Mathematics

B.A. IInd Year 3rd Semester

PAPER-A (THEORY)

BAMH- 201 : Advanced Calculus

External Marks : 25

Internal Marks: 10

Time: 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit.
2. The **Compulsory Question No.1 of 05 marks** will be short answer type questions containing *ten* questions of equal marks (i.e., 01 mark each) spread over the whole syllabus. Other question will carry the 05 marks each.

UNIT – I

Continuity, Sequential Continuity, properties of continuous functions, Uniform continuity, chain rule of differentiability. Mean value theorems; Rolle's Theorem and Lagrange's mean value theorem and their geometrical interpretations. Taylor's Theorem with various forms of remainders, Darboux intermediate value theorem for derivatives, Indeterminate forms.

UNIT – II

Limit and continuity of real valued functions of two variables. Partial differentiation. Total Differentials; Composite functions & implicit functions. Change of variables. Homogenous functions & Euler's theorem on homogeneous functions. Taylor's theorem for functions of two variables.

UNIT – III

Differentiability of real valued functions of two variables. Schwarz and Young's theorems. Implicit function theorem. Maxima, Minima and saddle points of two variables. Lagrange's method of multipliers.

UNIT – IV

Jacobians, Beta and Gamma functions, Double and Triple integrals, Dirichlets integrals, change of order of integration in double integrals.

Books Recommended:

1. Gabriel Klaumber, Mathematical analysis, Marcel Dekkar, Inc., New York, 1975
2. R.R. Goldberg, Real Analysis, Oxford & I.B.H. Publishing Co., New Delhi, 1970
3. Gorakh Prasad, Differential Calculus, Pothishala Pvt. Ltd., Allahabad
4. S.C. Malik, Mathematical Analysis, Wiley Eastern Ltd., Allahabad.
5. Shanti Narayan, A Course in Mathematical Analysis, S.Chand and company, New Delhi
6. Murray, R. Spiegel, Theory and Problems of Advanced Calculus, Schaum Publishing co., New York

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Mathematics

B.A. IInd Year 3rd Semester

PAPER-B (THEORY)

BAMH- 202 : Numerical Analysis

External Marks : 25

Internal Marks: 10

Time: 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit.
2. The **Compulsory Question No.1 of 05 marks** will be short answer type questions containing *ten* questions of equal marks (i.e., 01 mark each) spread over the whole syllabus. Other question will carry the 05 marks each.

UNIT – I

Finite Difference operators and their relations, difference table, finding the missing terms and effect of error in a difference tabular values, Interpolation with equal intervals: derivations of Newton's forward and Newton's backward interpolation formulae and their applications. Interpolation with unequal intervals: derivations of Newton's divided difference & Lagrange's Interpolation formulae and their applications.

UNIT – II

Central Difference interpolation formulae: derivations of Gauss's forward and Gauss's backward interpolation formulae, Sterling, Bessel formulae and their applications. Numerical Differentiation: Relation between difference operator and derivative operator, Derivative of a function using interpolation formulae (as studied in Sections – I & II). Numerical Integration: Newton-Cote's Quadrature formula, Trapezoidal rule, Simpson's one-third rule and Simpson's three-eighth rule, Chebychev formula, Gauss Quadrature formula.

UNIT – III

Solution of Algebraic and Transcendental equations: Bisection method, Regula-Falsi method, Secant method, Newton-Raphson's method, Newton's iterative method for finding p th root of a number. Simultaneous linear algebraic equations: Gauss-elimination method, Gauss-Jordan method, Triangularization method (LU decomposition method). Iterative method, Jacobi's method, Gauss-Seidal's method, Relaxation method.

UNIT – IV

Eigen Value Problems: Power method, Jacobi's method, Given's method, House-Holder's method. Numerical solution of ordinary differential equations: Single step methods-Picard's method, Taylor's series method, Euler's method, Modified Euler's method, Runge-Kutta Methods, Multiple step methods; Predictor-corrector method, Milne-Simpson's method

Books Recommended:

1. Babu Ram, Numerical Methods: Pearson Publication.
2. R.S. Gupta, Elements of Numerical Analysis, Macmillan's India 2010.
3. M. K. Jain, S.R.K. Iyengar and R.K. Jain, Numerical Method, Problems and Solutions, New Age International (P) Ltd., 1996.
4. M. K. Jain, S.R.K. Iyengar and R.K. Jain, Numerical Method for Scientific and Engineering Computation, New Age International (P) Ltd., 1999
5. C. E. Froberg, Introduction to Numerical Analysis (2nd Edition).
6. Melvin J. Maaron, Numerical Analysis-A Practical Approach, Macmillan Publishing Co., Inc., New York
7. R.Y. Rubnistein, Simulation and the Monte Carlo Methods, John Wiley, 1981

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Mathematics

B.A. IInd Year 3rd Semester

PAPER-C (PRACTICAL)

BAMH (P)- 203 : Mathematics Lab-III

Time: 3 hours

External Marks : 30

Write down and execute the following programs using C-Programming Language

1. To interpolate the data using Newton's forward interpolation formula
2. To interpolate the data using Newton's backward interpolation formula
3. To interpolate the data using Gauss's forward interpolation formula
4. To interpolate the data using Gauss's backward interpolation formula
5. To interpolate the data using Lagrange's interpolation formula
6. To find the roots of algebraic and transcendental equations using Bisection method.
7. To find the roots of algebraic and transcendental equations using Regula-Falsi method.
8. To find the roots of algebraic and transcendental equations using Secant method.
9. To find the roots of algebraic and transcendental equations using Newton-Raphson's method.

BOOKS SUGGESTED:

1. Applied Numerical Analysis by Curtis F. Gerald and Patrick G. Wheatley – Pearson Education Ltd.
2. Numerical Methods: E. Balagurusamy, T.M.H.



Guru Jambheshwar University of Science & Technology, Hisar
Mathematics

B.A. IInd Year 4th Semester

PAPER-A (THEORY) BAMH-204 : Partial Differential Equations & Special Functions

External Marks : 25

Internal Marks: 10

Time: 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit.
2. The **Compulsory Question No.1 of 05 marks** will be short answer type questions containing *ten* questions of equal marks (i.e., 01 mark each) spread over the whole syllabus. Other question will carry the 05 marks each.

UNIT - I

Partial differential equations: Formation, order and degree, Linear and Non-Linear Partial differential equations of the first order: Complete solution, singular solution, General solution, Solution of Lagrange's linear equations, Charpit's general method of solution. Compatible systems of first order equations, Jacobi's method.

UNIT - II

Linear partial differential equations of second and higher orders, Linear and non-linear homogeneous and non-homogeneous equations with constant coefficients, Partial differential equation with variable coefficients reducible to equations with constant coefficients, their complementary functions and particular integrals. Equations reducible to linear equations with constant coefficients. Method of separation of variables: Solution of Laplace's equation, Wave equation (one and two dimensions), Diffusion (Heat) equation (one and two dimension) in Cartesian Co-ordinate system.

UNIT - III

Classification of linear partial differential equations of second order, hyperbolic, parabolic and elliptic types, Reduction of second order linear partial differential equations to Canonical (Normal) forms and their solutions, Solution of linear hyperbolic equations, Monge's method for partial differential equations of second order, Cauchy's problem for second order partial differential equations, Characteristic equations and characteristic curves of second order partial differential equation.

UNIT - IV

Series solution of differential equations – Power series method, Bessel equation and its solution: Bessel functions and their properties-Convergence, recurrence, Relations and generating functions, Orthogonality of Bessel functions. Legendre differential equation and its solution: Legendre function and its properties-Recurrence Relations and generating functions. Orthogonality of Legendre polynomial. Rodrigues' Formula for Legendre Polynomial.

Books Recommended:

1. D.A. Murray, Introductory Course on Differential Equations, Orient Longman, (India), 1967
2. Erwin Kreyszing, Advanced Engineering Mathematics, John Wiley & Sons, Inc., New York, 1999
3. A.R. Forsyth, A Treatise on Differential Equations, Macmillan and Co. Ltd.
4. Ian N. Sneddon, Elements of Partial Differential Equations, McGraw Hill Book Company, 1988
5. Frank Ayres, Theory and Problems of Differential Equations, McGraw Hill Book Company, 1972
6. J.N. Sharma and Kehar Singh, Partial Differential Equations
7. W.W. Bell, Special Functions for Scientists and Engineers.

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Guru Jambheshwar University of Science & Technology, Hisar

Mathematics (B.A. IInd Year 4th Semester)

PAPER-B (THEORY)

BAMH- 205 : Functions Mechanics-I

External Marks : 25

Internal Marks: 10

Time: 3 hours

Note:

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit.
2. The **Compulsory Question No.1 of 05 marks** will be short answer type questions containing *ten* questions of equal marks (i.e., 01 mark each) spread over the whole syllabus. Other question will carry the 05 marks each.

UNIT -I

Forces in two dimension (co-planner), triangle law and polygon law of forces, Lami's theorem, resultant of concurrent and coplanar forces, conditions of equilibrium of concurrent forces. Parallel forces: like parallel and unequal unlike parallel forces, resultant and centre of parallel forces; Moments and Couples.

UNIT -II

Forces in three dimensions, Poinsot's central axis, conditions for the reduction of a general system of forces in space to a single force, equations of central axis, Wrenches: Definition and basic laws, resultant wrench of two wrenches, locus of the central axis of two wrenches; Null lines and null planes.

UNIT -III

Velocity and acceleration along a plane curve, component of velocity and acceleration in radial, transverse, tangential and normal directions, Relative velocity and acceleration. Simple harmonic motion (SHM).

UNIT -IV

Newton's laws of motion, Central Orbits, differential equations of Central Orbits in polar form and in pedal form, areal velocity, elliptic, hyperbolic and parabolic orbit, velocity in a circle, apse and apsidal distances: definition and laws, velocity from infinity, Kepler's laws of planetary motion, equivalence of Kepler's laws of planetary motion and Newton's law of gravitation, motion under the inverse square law.

Books Recommended:

1. S.L. Loney : Statics, Macmillan Company, London.
2. R.S. Verma: A Text Book on Statics, Pothishala Pvt. Ltd., Allahabad.
3. S.L. Loney, An Elementary Treatise on the Dynamics of a Particle and a Rigid Bodies, Cambridge University Press, 1956
4. F. Chorlton, Dynamics, CBS Publishers, New Delhi.
5. A.S. Ramsey, Dynamics Part-I&2, CBS Publisher & Distributors.

Guru Jambheshwar University of Science & Technology, Hisar

Mathematics

B.A. IInd Year 4th Semester

PAPER-B (PRACTICAL)

BAMH (P)- 206 : Mathematics Lab-IV

External Marks : 25

Internal Marks: 10

Time: 3 hours

Write down and execute the following programs using C-Programming Language

1. To solve the system of linear equations using Gauss -elimination method.
2. To solve the system of linear equations using Gauss -Seidal iteration method.
3. To solve the system of linear equation using Gauss -jordan method.
4. To find the largest eigen value of a matrix by Power -method.
5. To integrate numerically using Trapezoidal rule.
6. To integrate numerically using Simpson's one- third rule.
7. To integrate numerically using Simpson's three-eighth rule.
8. To find numerical solution of ordinary differential equations by Euler's method/ Modified Euler's method.
9. To find numerical solution of ordinary differential equations by Runge -Kutta method.

BOOKS SUGGESTED:

1. Applied Numerical Analysis by Curtis F. Gerald and Patrick G. Wheatley – Pearson Education Ltd.
2. Numerical Methods: E. Balagurusamy, T.M.H.

Note: **Economics- Please Find Scanned Copy under BA-1



Guru Jambheshwar University of Science Technology, Hisar

Scheme for Theory Based Subjects

Guidelines for Scheme of examination of UG Course

SOCIOLOGY (under semester system)

The Scheme of Examination of undergraduate (UG) Courses under Faculty of Humanities & Social Sciences run by affiliated degree colleges will be under 80: 20 (external: internal) for theory based courses. Pass percentage will be

For the UG courses under Faculty of Humanities & Social Sciences, the guidelines regarding scheme and paper setting will be followed as:

For the end semester examinations, nine questions are to be set by the examiner. The candidates shall attempt five questions in all. First question will be compulsory of 20 marks based on the entire syllabus. It will comprise of ten short answer type questions of two marks each. Students are required to attempt any four questions out of remaining eight questions (these eight questions may be (in) up to four units depending on the subject). All remaining questions shall carry equal marks.

Scheme: 80:20 (external: internal)

1st question=20 marks (10 short answer type questions of two marks each)

Rest four questions: 15 marks each i.e. $4 \times 15=60$

Total = $(20+60) + 20 = 100$ marks

Components of Internal Assessment (Breakdown of 20 marks)

(b) 2 Assignment: 10 marks each

Guru Jambheshwar University of Science & Technology, Hisar

Sociology

B.A. IInd Year 3rd & 4th Semester

Scheme of Examination

3rd Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
Paper-A Theory	SOCL 201	Methods in Social Research	80	20	100	3Hrs

4th Semester

Paper No.	Paper Code	Nomenclature of Paper	External Marks	Internal Marks	Total Marks	Time
Paper-A Theory	SOCL 202	Option- II Social Problems in India	80	20	100	3Hrs

GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR

Sociology
B.A. IInd Year 3rd Semester

PAPER-A (THEORY)

SOCL 201 : Methods in Social Research

Maximum Marks : 100

Time : 3 hours

External Marks : 80

Internal Assessment : 20

Note:-

6. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
7. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.
8. Examiner is directed to give at least one Numerical in Unit-IV.

UNIT -I

Social Research: Definition, Nature and purpose; Steps in Social Research; Problem of Objectivity and Subjectivity in Social Research

UNIT - II

Research Method: Research Designs; Social Survey; Hypothesis- Types & significance; Sampling and Sampling Procedure

UNIT – III

Techniques of Data Collection: Types of Data; Techniques- Observation, Interview, Questionnaire, Schedule and Case Study

UNIT -IV

Statistical Analysis and Use of Computer in Social Research: Classification and Tabulation of data; Measures of Central Tendency: Mean, Median and Mode; Use of Computers in Social Research.

Readings:

Ahuja, Ram (2001): Research Methods, New Delhi: Rawat Publication.

Goode, W.J. and P.K.Hatt (1952): Methods in Social Research, New York: McGraw International. Seltiz, Claise et al; (1959): Research Methods in Social Relation, New York: Henry Holt and Co. Srivastava, Prakash G.N. (1994): Advances Research Methodology, Delhi: Radha Publication.

Thakur, Devender (2003): Research Methodology in Social Science, Delhi: Deep and Deep Publication. Young, P.V. (1988): Scientific Social Survey and Research, New Delhi Prentice Hall

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SOCIOLOGY

B.A. IInd Year 4th Semester

PAPER-A (THEORY)

SOCL 202 : Social Problems in India (Optional-II)

Maximum Marks : 100

Time : 3 hours

External Marks : 80

Internal Assessment : 20

Note:-

1. The question paper will consist of *nine* questions. The candidate shall attempt *five* questions in all. The Question No. 1 will be *compulsory*. The Candidate shall attempt *four* more questions selecting at least *one* from each Unit. The paper will carry 100 marks out of which 20 marks will be earmarked for internal assessment.
2. The **Compulsory Question No.1** will be short answer type questions containing *ten* questions of equal marks (i.e., 2 marks each) spread over the whole syllabus. Other questions will carry the 15 marks each.

UNIT - I

Social Problem: Meaning and Definition; Importance of the Study of Social Problems; Sociological Perspectives on Social Problem-Anomie (Durkheim), Differential Association (Sutherland), Labeling (Becker).

UNIT - II

Structural Issues: Inequality of Caste, Class, Gender and Ethnicity; Communalism; Problems of Minorities.

UNIT - III

Problems and Issues: Female Foeticide, Dowry, Domestic Violence, Divorce; Problems of Aged.

UNIT - IV

Social Disorganization: Crime and Juvenile Delinquency, Corruption, Drug Addiction, Suicide, Prostitution and AIDS

Readings:

Ahuja, Ram (2000); Social Problems in India, New Delhi: Rawat Publications. Beteille, Andre (1992); Backward Classes in Contemporary India, New Delhi: OUP

Beteille, Andre (1974); Social Inequality, New Delhi: OUP

Bereman, G.D. (1979); Caste and Other Inequalities: Essay in Inequality, Meerut: Folklore Institute. Dube, Leela (1997); Women and Kinship, Comparative Perspectives on Gender in South and Southeast Asia, New Delhi: Sage Publication.

Desai, Neera & Usha Thakkar (2007); Women in Indian Society, National Book Trust, India.

Gadgil, Madhav and Ramchandra Guha (1996); Ecology and Equality: The use and Abuse of Nature in Contemporary India, New Delhi: OUP.

Gill, S.S. (1998); The Pathology of Corruption, New Delhi: Harper Collin Publishers.

Lewis, Oscar (1966); Culture of Poverty "Scientific American" Vol-II and V No.IV PP-19-25.

Satya Murty, T.V. (1996); Region, Religion, Caste, Gender and Culture in Contemporary India, New Delhi