## New Scheme of Examination
### Bachelor of Arts (BA)
### Three Year Programme (Annual)

### BA-I

<table>
<thead>
<tr>
<th>Paper</th>
<th>Nomenclature</th>
<th>Compulsory Subjects</th>
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<tbody>
<tr>
<td>BA1001</td>
<td>English</td>
<td></td>
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<tr>
<td>BA1002</td>
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### Elective Subjects
Choose any two of the subjects one from each group:

#### Group-I

<table>
<thead>
<tr>
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<tbody>
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<td>BA1003</td>
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<tr>
<td></td>
<td>Option-1- History of India (earlier to 1526)</td>
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<tr>
<td>BA1004</td>
<td>Economics</td>
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<tr>
<td></td>
<td>Option-1-Micro Eco. &amp; Indian Economic Problems</td>
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<td>BA1005</td>
<td>Public Administration</td>
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<td>Elements of Public Administration</td>
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#### Group-II

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<tr>
<td>BA1007</td>
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<td></td>
<td>Paper-I Algebra And Trigonometry</td>
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<td></td>
<td>Paper-II Calculus And Ordinary</td>
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<tr>
<td></td>
<td>Differential Equation</td>
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<td>Paper-III Vector Analysis And Geometry</td>
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<td>BA1008</td>
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<td>BA1009</td>
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### BA-II

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**Elective Subjects**: Choose any two of the subjects one from each group:

#### Group-I

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<tbody>
<tr>
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<tr>
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<td>Option-1-History of India (C.A.D 1526 to 1857)</td>
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<td>Option-1- Bhartiya Prashashan</td>
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#### Group-II

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<td>BA2007</td>
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<td></td>
<td>Paper-I Advance Calculus</td>
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<tr>
<td></td>
<td>Paper-II Differential Equations and Calculus of Variations</td>
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<td>Paper-III Mechanics</td>
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**BA-III**

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**Elective Subjects:** Choose any two of the subjects one from each group:

**Group-I**

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<td>Development &amp; Environmental</td>
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<td>Economics and International Trade</td>
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<td>Options-2- Local Govt. and</td>
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<td>Administration in India</td>
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**Group-II**

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<tr>
<td>BA3006</td>
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<td>Paper-III Programming in C &amp;</td>
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Important Note: *The Environmental studies is a qualifying paper for all UG Courses i.e BA & B.Com. Students are required to qualify the same, otherwise final result will not be declared and degree will not be awarded.*
BACHELOR OF ARTS (BA)  
B.A. PART-I  
PAPER CODE: BA1001  

B.A I session 2015-2016  
(English Compulsory)  

Syllabus and Scheme of Examination  
Maximum Marks: 100  
Time: 3 Hours  

Prescribed Book:  
Rana, Randeepr, Jaibir S. Hooda and Loveleen Mohan eds. Language and Literature. Orient Blackswan.  

Question 1.  Explanation with reference to the context: Students will be required to attempt any two out of the given three passages.  

2x6=12  

Question 2.  Short answer type questions: Students will be required to answer any five out of the given eight in about 50 words each.  

5x3=15  

Question 3.  Essay type questions: Students will be required to answer two questions in about 150-200 words each. There will be internal choice in both the questions.  

2x9=18  

Question 4.  Comprehension: Students will be required to answer the questions that follow the passage taken from the prescribed textbook.  

5  

Question 5.  (A) Grammar: noun, pronoun, adjective, adverb, verb, preposition, modal and conjunction. This will be “Do as Directed” type question. Students will be required to attempt any twenty out of the given thirty items.  

2x20=40  

Question 5  (B) Grammar: tense, voice, narration and phrasal verbs. This will be “Do as Directed” type question. Students will be required to attempt any twenty out of the given thirty items.  

2x20=40  

Question 6.  Essay: students will be required to write an essay in about 200 words on any one out of the four. The topics for essay writing will be similar to but not the same as given in the prescribed textbook.  

10
पाठ्य पुस्तक:
1. 'काव्य शिक्षर' – प्राचीन एवं मध्ययुगीन काव्य पर आधारित संज्ञक पुस्तक सं. डॉ. नरेश मिश्र, हिंदी विभागाध्यक्ष म. द. विश्वविद्यालय, रोहतक।
2. "गद्दः-शिक्षर" नामक गद्द संकलन सं. हिंदी विभागाध्यक्ष, कु. विश्वविद्यालय जिसमें पांच कहावियों और पांच निबंध संकलित हैं।

निर्देशः
1. पहला प्रश्न काव्य शिक्षर नामक काव्य संग्रह से व्याख्या के रूप में होगा। पाठ्यपुस्तक में निर्धारित कवियों में से किन्हीं चार कवियों की चार व्याख्याएँ पूरी जाएंगी। परीक्षाधीनों को उनमें से किन्हीं दो की समस्त व्याख्या करनी होगी। प्रत्येक व्याख्या 6 अंक की होगी और पूरा प्रश्न 12 अंकों का होगा।
2. किन्हीं दो कवियों का परिचय पूरा जाएगा, जिनमें से परीक्षाधीनों को एक का उत्तर देना होगा। इस प्रश्न के लिए 8 अंक निर्धारित हैं।
3. निर्धारित कवियों में से किन्हीं दो पर अनुशीलन में से दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षाधीनों को किसी एक का उत्तर देना होगा। इस प्रश्न के लिए 10 अंक निर्धारित हैं।
4. निर्धारित पाठ्य पुस्तक गद्द-शिक्षर में संकलित निबंधों और कहावियों में से व्याख्या के लिए दो-दो अवशेष दिए जाएंगे, जिनमें से परीक्षाधीनों को प्रत्येक से एक-एक अवशेष की समस्त व्याख्या करनी होगी। प्रत्येक व्याख्या 6 अंकों की और पूरा प्रश्न 12 अंकों का होगा।
5. निर्धारित कहावियों के लिए लेखकों का लोकप्रिय अवधारणाओं को जिसमें से परीक्षाधीनों को किसी एक उत्तर देना होगा। इस प्रश्न के लिए 10 अंक निर्धारित हैं।
6. निर्धारित लेखकों में से किन्हीं दो पर अनुशीलन में से दो आलोचनात्मक प्रश्न पूछे जाएंगे। परीक्षाधीनों को किसी एक का उत्तर देना होगा। इस प्रश्न के लिए 10 अंक निर्धारित हैं।
7. लघुपदी प्रश्न द्वारा मिला पाठ्य पुस्तक में निर्धारित दो कहावियाँ (मोहन राकेश और मालती जोशी) और निबंध (महावीर प्रसाद द्विवेदी और संदर्भ पूर्ण सिंह) पर पाठ्य पुस्तक की अनुशीलनी में से ही एक-एक प्रश्न अध्यात्म चार प्रश्न पूछे जाएंगे, जिनमें से परीक्षाधीनों को किन्हीं दो प्रश्नों के उत्तर देने होंगे। प्रश्न परियोजनात्मक प्रकृति के होंगे। प्रत्येक प्रश्न 10 अंकों का होगा और पूरा प्रश्न 30 अंकों का होगा।
8. अन्य प्रश्न काव्य शिक्षर की अनुशीलनी का व्याख्यात्मक पर आधारित होगा, जिसके लिए 10 अंक निर्धारित हैं। इसके अलावा, व्याख्यात्मक, पर्याय, बिलों, व्यक्ति के लिए एक शब्द, मुहाद्दरु और लोकप्रिय निर्धारित हैं। इसमें 10 अनिष्कारित वस्तुनिष्ठ प्रश्न होंगे। प्रत्येक प्रश्न के लिए चार विकल्प होंगे, जिनमें से एक चुनौती उत्तर देना होगा।

अंक 10
HISTORY
OPTION – I HISTORY OF INDIA (EARLIER TO 1526)
PAPER CODE: BA1003

Marks: 100  Time: 3Hrs

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Section I
1. Survey of the sources.
3. Concept of the Neolithic-advent of food production.
5. Society, Polity, economy, culture and religion as reflected in the vedic literature
6. Social developments-varna, Jati, marriage and property relations.

Section II
1. The Mauryan Empire-State, administration and economy: Ashoka’s Dharma-its nature and propagation; Mauryan art and architecture.
3. Sangam Age-Literature, society and culture.
4. Gupta Empire-administration, agrarian and revenue system, and trade; society, art, architecture, literature, science and technology.
5. Status of Women-marriage, property rights, sati, purdas and devadasi system.
6. Post-Gupta period upto 750AD-Pallavas, Chalukyas and vardhanas.

Section III
1. Invasions of Ghaznavids and Ghorids; Causes of the success and their impact.
3. Fragmentation and downfall of Sultanate.
4. Society and economy under the Sultanate.
5. Religion and culture; Bhakti and Sufi movements; art, architecture during the Sultanate.

Section IV
Maps
1. Important sites of the Harappan Civilisation.
2. Ports, trading centres and trade routes of Ancient India.
3. Extent of Ashoka’s Empire, Pillars and Edicts.
4. Extent of Harsha’s Empire.
5. Extent of Allauddin Khalji’s Empire.
6. Urban Centres during the Sultanate.

Suggested Reading
H.C. Ray, Chaudhary. Advanced History of India Delhi, 1971 (Hindi Also).
R.S. Tripathi. Ancient India Delhi, 1977 (Hindi also).
A.L. Basham. The Wonder that was India Delhi 1981(Hindi also).
R.C. Majumdar and A.S. The Vakta Gupta Age Delhi 1981(Hindi also).
Allchin, B and Allchin, F.R. Rise of Civilisation in India and Pakistan (Delhi Select Book Service Synidicate, 1983).
Satish Chandra. Medieval India, From Sultanate to the Mughals (Delhi, Har Anand Publications, 1997).
Habibula, A.B.M. Foundation of Muslim Rule in India (In Hindi also).
Lal, K.S. Khalji, Vansh Ka Itihas (in Hindi also).
Kanoongo, K.R. Life and Times of Sher Shah Suri (in Hindi also).
ECONOMICS
(OPTION-1-MICRO ECONOMICS AND INDIAN ECONOMIC PROBLEMS)
PAPER CODE: BA100

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Unit I
Consumer’s Behaviour: Utility- Cardinal and ordinal approaches;
Consumer’s equilibrium (Hicks and Slustsky); Elasticity of demand Price, Income and gross; Consumer’s Surplus.
Theory of production & Costs; Production decisions, Production function, iso-quant Law of variable proportions; Returns to scale; Economics of scale, Different concepts of costs and their interrelations.

Unit II
Market structure and commodity pricing; market forms perfect and imperfect markets; Equilibrium of a firm: imperfect competitions, monopolistic competition, Factor pricing marginal productivity theory of distribution.

Unit III
Problems of planning in India; Characteristics of Indian economy; problems of poverty; inequality and unemployment; objectives of planning in Indian achievements and failures; new economic reforms: A basic idea.

Unit IV
Indian Agriculture, Nature and importance: Trends in agricultural production and productivity, Rural credit, Agricultural marketing.
Industry : industrial development during the planning period; new industrial Policy. Growth and problems of small scale industries.

Suggested Reading
Heath field and wibe (1907), An introduction to cost and production functions, Macmillan London.
Kouisoyionnis, A (1990), Modern Microeconomics, Macmillan.
Ray, N.C (1918), an Introduction to Microeconomics, Macmillan Company of India Ltd Delhi.
Dhingra I.C. (2001), The Indian Economics ; Envoirnment and policy, Sultan Chand & Sons, New Delhi.
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Organisation: meaning and basis, Principles of Organisation; Hierarchy, Span of Control, Decentralization, Supervision and Control, Communication. Public Relations: Meaning, Methods and significance; Administrative Law; Delegated Legislation; Administrative Tribunals.
Forms of Administrative Organisation, Department, Public Corporations; Parliamentary and Govt. Control over Public Corporations, Independent Regulatory Commission; Staff and Line Agencies.
Personnel Administration, Recruitment, Training, Promotion, Public Service Commission, Morale, Joint consultative Machinery (Whitley councils).
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Part-A
Nature and significance of Political Theory
Power and Authority
State: Original and Development
State: Dominant Perspectives
Sovereignty

Part-B
Citizenship, Rights and Liberty
Equality and Justice
Democracy
Development and Welfare State
Theories of Social change

Part-C
Short answer questions, at least five, spread over the entire syllabus.
Objective type (multiple choice) question over the whole syllabus.

Suggested Readings
MATHEMATICS
PAPER-I ALGEBRA AND TRIGONOMETRY
PAPER CODE: BA100

Marks: 35 Time: 3Hrs

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 7 short-answer type questions each of 1 mark covering the entire syllabus. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 7 marks.

Section I

Section II
Relations between the roots and coefficients of general polynomial equation in one variable. Transformation of equations. Descartes’ rule of Signs. Solutions of cubic equations (Cordon method) and Bi quadratic equations (Descartes’ and Ferrari Methods).

Section III

Section IV

Suggested Reading
10. K.A. Stroud, Enginnering Mathematics (Indian Edition),
Paper-II CALCULUS AND ORDINARY DIFFERENTIAL EQUATION
PAPER CODE: BA1007

Marks: 35  Time: 3Hrs

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 7 short-answer type questions each of 1 mark covering the entire syllabus. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 7 marks.

Section I

Section II

Section III

Section IV
Linear differential equations of second order. I Transformation of the equation by changing-the dependent variable/the independent variable, reduction of order. Method of variation of parameters and unknown coefficients, Ordinary simultaneous differential equations.

Books Recommended
5. H.T. H. Piaggio, Elementary Treatise on Differential Equations and their Applications, C.B.S. Publisher and; Distributors,
Delhi, 1985.
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 6 short-answer type questions each of 1 mark covering the entire syllabus. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 6 marks.

Section I

Section II
Vector integration. Theorems of Gauss, Green, Stokes and problems based on these.

Section III

Section IV
प्रस्तुत ऐंठिक

पेपर कोड BA1008

संस्कृत वाण्यवहार:

(अंक 10)

संस्कृत वाण्यवहार साहित्य (प्रकाशक संस्कृत भारती, माता भगवान गंगा, इस्तेमालकारी, नई दिल्ली)

पुस्तक में से 1 से 8 विषयों तक संस्कृत में सरल प्रश्नोत्तर रूप में लिखित परीक्षा (शिष्टाचार, मेलमुम, सरलवाक्यात्म, सामान्यवाक्यात्म, मित्रमिलनम, यात्रा, प्रवाससंग्रह: प्रतिनिधित्वनम, छात्रा)

संस्कृत ग्रंथानुशीलनम्

(अंक 30)

(क) हितोपदेश: (मित्रवादम)
(ख) व्युदाक्षणम् (भावविवर्चितम)
(ग) शुकनासोपदेश: (कादम्बरीतत)
(घ) पादयासों की व्याख्या व सार आदि

संस्कृत व्याकरणम्

(अंक 30)

(क) शब्दरूप— राम, कवि, भानु, पितृ, लता, मति, नदी, वन, बुध, वान, रसित, सर्व, तद, अत, यद, विद, इदम् (वित्तव विक्रियाओं में), अर्थ, युस्मद, एक, न्यु, चतुरु, पुनर्व (तीनों विक्रियाओं में)
(ख) धातुरूप परस्मैयुक्त— भू, पद, हस, नम, गम, अस, हन, कुप, नर, वृत, अद, इष, पृष्ठ, चित्त, आत्मनेयपदम— सेव, तम, रुच, मुद, याच
उच्चरणम्— कृ, नी, ह, भज, पच
(घ) सन्धि— अच सन्धि, हल सन्धि, विसर्ग सन्धि

छद्म

(अंक 16)

अनुपूर्णो, आयां, इन्द्रयां, उपेन्द्रयां, उपजातिं, मालिनीं, संघर्षा, वंशसंघ, शिखरिणी, मन्त्राक्रमं, वससंतातिका, शान्तिविविधितम

अनुवादः केंद्रभूतस्वलोकाशक

(अंक 14)

(क) हिंदी से संस्कृत में सरल अनुवाद
(ख) केंद्रभूत चार शलोकों का शुद्ध लेखन (प्रश्न पत्र में छपे शलोकों से भिन्न)

दिशा निर्देश—

Unit I: आठ में से किसी पौंच प्रश्नों के संस्कृत में उत्तर
5x2=10

Unit II: (क) चार में से दो संदर्भों की व्याख्या
2x5=10

(ख) चार में से दो संदर्भों की व्याख्या
2x5=10

(ग) चार में से दो गद्यांशों की व्याख्या
2x5=10

Unit III: (क) चार शब्दों में से किसी दो के सम्पूर्ण रूप
2x5=10

(ख) चार धातुओं में से किसी दो के पूछे गए दो लकारों में सम्पूर्ण रूप (लढ़, लूट, लोट, लड़, विदिविद्ध, लकार)
2x5=10

(घ) आठ में से किसी पौंच प्रश्नों में सच्चि अथवा सच्चिविचच्छेद
5x2=10

Unit IV: चार में से किसी दो छवियों में लक्षण व उदाहरण
2x8=16

Unit V: (क) आठ में से पौंच वाक्यों का संस्कृत में अनुवाद
5x2=10

(ख) केंद्रभूत चार शलोकों का लेखन (प्रश्न पत्र से भिन्न)
4x1=04
QUALIFYING SUBJECT
ENVIRONMENTAL STUDIES
PAPER CODE: BA1009

Marks: 100 Time: 3Hrs
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Unit I
The Multidisciplinary nature of environmental studies. Definition, scope and importance. Need for Public awareness

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

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

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

Unit V Environmental Pollution
Definition, causes, effects and control measures of:
(a) Air pollution
(b) Water pollution
(c) Soil pollution
(d) Marine pollution
(e) Noise pollution
(f) Thermal pollution
(g) Nuclear hazards
Solid waste management: Causes, effects and control measures of urban and industrial wastes.
Role of an individual in prevention of pollution.
Pollution case studies Disaster management: floods, earthquake, cyclone and landslides.

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

Unit VII Human population and the Environment
- HIV/AIDS.
- Woman and Child Welfare.

Unit VIII Field Work
- Visit to a local area to document environmental assets river/forest/grassland/hill/mountain.
- Visit to a local polluted site-urban/Rural/industrial/ Agricultural.
- Study of common plants, insects, birds.
- Study of simple ecosystems - pond, river, hill slopes, etc.

References
2. Bharucha, Frach, The Biodiversity of India, Mapin Publishing Pvt: Ltd. Ahmedabad 380013, India, Email: mapin@jcenet.net (R).
7. Down to Earth, Centre for Science and Environment (R).
9. Hawkins R.E. Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay. (R)
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 10 short-answer type questions each of 2 marks covering the entire syllabus. In addition to Q.No. 1, candidate will be required to attempt four questions, at least two questions from each section. Each question shall carry 20 marks.

Section A

Text Prescribed
3. Selected episodes from Mahabharata by C. Raja Gopalachari, Published by Bharatiya Vidya Bhavan Bombay
4. The first 63 chapters from episode “Ganapti”, “The Scribe” to” Yudhistra Seeks Benediction” are prescribed for study.
5. A text book of Grammar written by Sh. Inderjit Kumar of G.M.N. College, Ambala Cantt and Dr. Sanjay Kumar, Reader and Head, Ch. Devi Lai University, Sirsa Published by Kurukshetra University, Kurukshetra.

SCHEME OF EXAMINATION
Q1. Explanation with reference to the context. Candidate will be required to attempt two passages, one each from the book of poems and the book of one act plays. The passages will have internal choice. 10X2=20 Marks
Q2. Short-answer type questions. Four short-answer type questions will be set on the prescribed poems and four short-answer type questions will be set on the prescribed book on fiction. The students will be required to attempt five questions out of given eight questions selecting at least two from each text (i.e. book of Poems and Books of Fiction). 4X5=20 Marks
Q3. One essay-type question (with internal choice) will be set on each of the prescribed book of poems and one-act plays. Students will be required to attempt one question each from both the texts. 2X10=20 Marks
Q4. One essay-type question (with internal choice) will be set on the book of Fiction. 20 Marks

SCHEME OF EXAMINATION
Q5. Questions on Grammar on the prescribed items (use of Tenses in Communicative situations, Subject-verb concord, active and passive voice, narration, common errors, word power, vocabulary, idioms and phrases) based on prescribed text-book of Grammar but not necessary the same as those given in the textbook. 20 Marks
Q6 Questions on the following items in the prescribed hook of Grammar,
a) Transcription of simple words, listed in the text book of Grammar, The students will be required to transcribe 10 words out of given 15 words from the text book. 20 Marks
Q7 Comprehension passage.(with five questions at the end) 20 Marks
Q8 Translation (of a passage from English to Hindi) 20 Marks


**पाठ्य पुस्तक/ पाठ्य विषय**

1. अभिव्यक्त गद्द गरिमा स. डॉ. राम नरेश मिश्र, प्रकाशक खादू, प्रकाशन, रोहतक, दिल्ली।
2. “अभिव्यक्त गद्द गरिमा” कुरुक्षेत्र विश्वविद्यालय।
3. अंधेर नगरी—भारतेन्दु हरिशचन्द्र।
4. जहाज का पंचकी (संक्षिप्त संस्करण) इलाहाबाद जोशी।
5. हिंदी साहित्य का इतिहास (आधुनिक काल)।

**निर्देश:**

1. काय पुस्तक से व्याख्या के लिए चार पद्धार्थ पूछे जाएंगे जिनमें से परीक्षार्थियों को दो की व्याख्या करनी होगी। प्रत्येक व्याख्या 9 अंकों की होगी। पूरा प्रश्न 18 अंकों का होगा।
2. काय पुस्तक से संबंधित किन्हीं तीन कवियों का साहित्यक परिचय पूछा जाएगा जिनमें से परीक्षार्थियों को किसी एक का उत्तर देना होगा। यह प्रश्न 10 अंकों का होगा।
3. अंधेर नगरी से चार लघूतरी प्रश्न पूछे जाएंगे जिनमें से परीक्षार्थियों को दो प्रश्नों के उत्तर देने होंगे प्रत्येक प्रश्न 5 अंकों का होगा।
4. “जहाज का पंचकी” उपन्यास से चार आलोचनात्मक प्रश्न पूछे जाएंगे। जिनमें से परीक्षार्थियों को 2 प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न 9 अंकों का होगा।
5. “अभिव्यक्त गद्द गरिमा” से चार गद्दे पूछे जाएंगे जिनमें से परीक्षार्थी को दो की सप्रसंग व्याख्या करनी होगी। प्रत्येक व्याख्या 5 अंकों की होगी।
5A. “अभिव्यक्त गद्द गरिमा” से चार लघूतरी प्रश्न पूछे जाएंगे। जिनमें से परीक्षार्थियों को किन्हीं दो प्रश्न के उत्तर देने होंगे। प्रत्येक प्रश्न 5 अंकों का होगा।
6. आधुनिक हिंदी साहित्य के इतिहास से दस अति लघूतरी प्रश्न पूछे जाएंगे जिनमें से परीक्षार्थियों को 8 प्रश्नों का उत्तर देना होगा। प्रत्येक का उत्तर लगभग 50 संबंध में देना होगा। प्रत्येक प्रश्न 3 अंकों का होगा। पूरा प्रश्न 24 अंकों का होगा।

** Marks: 100  
Time: 3Hrs**
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Section I
1. Mughal Empire till 1707-Relations with Rajputs, Sikhs, deccan Kingdom, Maraths, Parsia and Central Asia.
2. Mughal administration and institutions: administrative structure, land revenue system: manasabdari and jagirdari.

Section II
1. Economic and technological development: agriculture, industry, trade, commerce and urban centers.
3. Art and architecture under Mughals.
4. Religion and Culture: Religious policies of Akbar and Aurangzeb, Sufism; Bhakti Movement and Composite Culture.
5. Decline and disintegration of Mughal Empire.

Section III
1. Advent of European powers: Portuguese; French; and English.
4. Economic Changes: Land revenue settlement-Permanent Settlement, Rayatwari and Mahalwari; decline of cottage industry and industrialization.
5. Early resistance against Company’s rule; Revolt of 1857 Causes; nature and results.

Section IV
Maps
1. Political Condition of India in 1526.
2. Mughal Empire at the death of Akbar (1605).
3. Indian Powers and Kingdoms around 1765.
6. Areas and Centres of Socio-religious movements in early 19th century India.

Section V
Objective type questions.

Suggested Readings
Verma. H.C. Madhyakaleen Bharat-Vol-II (154)
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Unit I
National income: Concepts and measurement, Say’s Law of Market & the classical theory of employment, Keynes objection to the classics theory; Keynesian employment theory, consumption function Autonomous and induced investment; Investment multiplier, Theories of investment, MEC and accelerator.

Unit II
Trade Cycle theories-Samueison and Hicks, Control of trade cycles Growth models Harrod-Domar model and Solow model.

Unit III
Money: meaning, functions and significance, Quantity theory of money, Keynesian theory of money, Inflation: demand-pull and cost-push; effect and control of inflation; Functions of commercial banks and Central Bank; Recent reforms in banking sector in India.

Unit IV
Nature and Scope of Public Finance; The principle of maximum social advantage; Classification, canons and effects of Public expenditure, Classification, cannon and effects of taxation; Impact and incident of taxation; Characteristics of a good tax system, Recent tax reforms in India-an overview; Sources and effects of public debt; Methods of debt redemption; Recommendations of thirteenth Finance Commission.

Reading list
Shapiro, E (1996), Macroeconomic Analysis; Galgotia Publications, New Delhi.
PUBLIC ADMINISTRATION
OPTION- 1-BHARTIYA PRASHASHAN
PAPER CODE: BA2005

Marks: 100
Time: 3Hrs

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Feature of Indian Administration; its role in the context of democratic system and socio-economic development. Centre State Relationship-Administrative and Financial relations.

Role of the President, Prime Minister and Cabinet in Indian Administration, Cabinet Secretarial, Organisation and functions of Union Minister and State Secretariat, role of the Chief Secretary in State Administration.

Preparation of the Indian Budget, its enactment Parliamentary control over Public Finance in India. Role of Comptroller and Auditor-General over Financial Administration, composition and functions of Public Accounts Committee and Estimate Committee at the Centre. Civil Services: Recruitment, training, promotion, discipline, morale, Union Public Service Commission. District Administration: Its Features, role and position of the Deputy Commissioner and Superintendent of Police in District Administration. Accountability of Indian Administration to the Parliament and Judiciary; administration and citizen, Lokpal and Lok- Ayukt.
POLITICAL SCIENCE
OPTION-1- BHARTIYA SARKAR AND RAJNI
PAPER CODE: BA2006

Marks: 100  Time: 3 Hrs

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Part-A
The Making of India’s Constitution and its sources. Basic features of India’s Constitution.
Preamble, Fundamental Rights and Duties and the Directive Principles of State Policy.
Union Government: President, Parliament, Cabinet and Prime Minister.

Part-B
Centre-State Relations
Supreme Court and the Constitutional Process.
Political Parties : National and Regional Parties.
The Election Commission Electoral Reforms. Major issues in Indian Political, Caste, religion. Language Region, Poverty-Alleviation.

Part-C
Short answer questions, at least five, spread over the entire syllabus. Objective type (multiple choice) questions spread over the whole syllabus.

Suggested Readings
R. Kothari, Politics in India, New Delhi, Orient Longman, 1970.
M. V. Pylee, An Introduction to the constitution of India, New Delhi, 1998.
MATHEMATICS
PAPER-I -ADVANCE CALCULUS
PAPER CODE: BA2007

Marks: 35  Time: 3Hrs

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 7 short-answer type questions each of 1 mark covering the entire syllabus. In addition to Q. No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 7 marks.

Section I

Section II

Section III
Envelopes, Evolutes, Indeterminate forms.

Section IV

Books Recommended
8. Avanced Engineering Mathematics, ITP : Company, USA
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 7 short-answer type questions each of 1 mark covering the entire syllabus. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 7 marks.

Section I

Section II

Section III
Partial differential equations of the first order Lagrange’s Solution. Some special types of equations which can be solved easily by methods other than the general method. Charpit’s general method of solution and its special cases. Partial differential equations of second and higher orders. Classification of linear differential equation of second order. Homogeneous and non-homogeneous equation with constant coefficients. Partial differential equations reducible to equation with constant coefficients.

Section IV
Curves with torsion, principal normal, osculating circle, binomial, Serret-Frenet formulae, locus of centre of curvature, spherical curvature, surfaces, envelopes, edge of regression, fundamental magnitudes of the first order.

Books Recommended
5. Peter V.O. Neii, Advanced Engineering Mathematics, ITP Company, USA.
10. C.E. Weatherbiinn differential Geometry, ELBS.
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 6 short-answer type questions each of 1 mark covering the entire syllabus. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 6 marks.

Section I
Conditions of equilibrium of Coplanar forces. Virtual work in two dimensions. Proof of principle of virtual work and its converse for coplanar forces. Forces which may be omitted in forming the Equation of virtual work.

Section II
Forces in three dimensions. Stable and unstable equilibrium.

Section III
Velocities and accelerations along radial and transverse directions and along tangential and normal directions. Simple harmonic motion. Elastic strings. Motion on smooth and rough plane curves. Motion in a resisting medium. Motion of particles of varying mass.

Section IV
Central Orbits, Kepler’s laws of motion. Motion of a particle in three dimensions. Acceleration in terms of different coordinate system.

Books Recommended
संस्कृत

PAPER CODE: BA2008

Time: 3Hrs Marks: 100

Unit-I संस्कृत वाण्यवहार: –
संस्कृत वाण्यवहार साहसी (प्रकाशक संस्कृत भारती, माता मंदिर गली, झण्डेवालन, नई दिल्ली)
पुस्तक में से 9 से 16 विषयों तक संस्कृत में सरल प्रश्नोत्तर रूप में लिखित परिशिष्टा
(9 परिशिष्टा, 10 चलचित्रम, 11 शिक्षक, 12 रिष्य, 13 पाक, 14 वेशार्थपाठनि, 15 कार्यालय, 16 स्वास्थ्यम)

Unit-II संस्कृत प्रथानुशीलनम्
क) सामायणम् (दालकाण्डम प्रथम सर्ग)
ख) श्रीमदभागवदगीता (द्वितीय अध्याय)
ग) सघुवशम् (द्वितीय सर्ग)
(श्लोकों की वाक्या व आलोचनात्मक प्रश्न, सार आदि)

Unit-III संस्कृत व्यक्तिगतम्
क) समास–अयोध्याभास, कर्मधाराय, हनुम, बहुचकीहि
ख) वाच्य–कर्तुरवथ्य, कर्मवाच्य, भाववाच्य
ग) क्रृत्तत्कला–कत्यत, तिनुप, घण्ट, कत्यत, कविचु, शयु, शानच, तययु, अनीयर
घ) लक्षित प्रत्यय–मतुपु, इनि, ठक्क, तच्छ, तत्स, छ
ड) गिजनत रूप एवं सननत रूपः भू, पद, गम, पा, लिख, भु, धृ, दा, स्था, हन्
धातुओं के लट्ट लकार, प्रथम पुरुष एकवचन में

Unit-IV लघु सिद्धांत कौमुदी
प्रत्यहार सूत्र तथा संज्ञ प्रकरणः (सोपाहरण सूत्र वाच्या)

Unit-V अनुवादः पत्रलेखनम्
क) हिन्दी से संस्कृत में सरल अनुवाद
ख) सरल विषयों पर संस्कृत में पत्र लेखन

दिशा निर्देशः–
Unit I: आठ में से कितनी पौंच प्रश्नों के संस्कृत में उत्तर
Unit II: (क) चार में से दो श्लोकों की वाक्या
(ख) चार में से दो श्लोकों की वाक्या
(ग) i. दो में से एक श्लोक की वाक्या
ii. दो में से एक प्रश्न अथवा बार
Unit III: (क) आठ में से पौंच के समास अथवा विग्रह
(ख) चार में से दो वाक्यों में वाच्य परिवर्तन
(ग) आठ में से पौंच में प्रकृति प्रत्यय प्रदर्शन
(घ) आठ में से पौंच में प्रकृति प्रत्यय प्रदर्शन
(ड) आठ में से चलचित्र में प्रकृति प्रत्यय प्रदर्शन
Unit IV: पौंच में से कितनी तीन सूत्रों की वाक्या
Unit V: (क) आठ में से पौंच वाक्यों का संस्कृत में अनुवाद
(ख) दो में से किसी एक विषय पर संस्कृत में पत्र लेखन

5x2=10
2x5=10
5x1=05
5x1=05
3x211=05
5x1=05
5x1=05
5x3=15
5x2=10
1x10=10
B.A. PART III
ENGLISH (COMPULSORY)
PAPER CODE: BA3001

Marks: 100 Time: 3Hrs

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 10 short-answer type questions each of 2 marks covering the entire syllabus. In addition to Q.No. 1, candidate will be required to attempt four questions, at least two questions from each section. Each question shall carry 20 marks.

Section A
2. PLAY: Macbeth by William Shakespeare.

Scheme of Examination
Q1 (a) One passage (with internal choice for explanation with reference to the context from The Eternal Muse will be set.
(b) Similarly, there will be one passage (with internal choice) for explanation with reference to the context from Macbeth. 20 Marks
Q2. Two short questions (with internal choice) each on Poetry and the Play requiring critical understanding of the poems and the play. 20 Marks
Q3. One essay-type questions (with internal choice) on the book of poems, requiring first hand appreciation of the poems. 20 Marks
Q4. One essay-type question (with internal choice) on the play requiring first-hand-appreciation of the text, including appreciation of theme/characters/plot. 20 Marks

Section B
PRESCRIBED BOOKS
1. A Text book of English Grammer and Composition edited by (i) Dr. S.C. Sharma, Head Dept. of English, University College, Kurukshetra, (ii) Sh. Shivnarain, Sr. Lecturer in English, University College, Kurukshetra, Dr. Gulab and Mr. Pankaj of Hindu College, Sonepat.
The text book of Grammar will focus on the following items:
a) Essay
b) Precis
c) Vocabulary-Synonyms, Antonyms, One Word Substitution
d) Correction of incorrect sentences/Do as directed
2. The Spectrum of Life: A Selection of Modern Essays by Late Dr. M.K. Bhatnagar, Ex Prof. Dept. of English M.D. University, Rohtak

SCHEME OF EXAMINATION
Q5. The Students shall be required to attempt an essay, on any one topic out of the four given in the question paper. The topics may be of descriptive or general nature. 20 Marks
Q6. Precis of a given passage (with internal choice) 20 Marks
Q7. Grammar (vocabulary; synonyms, Antonyms, one word substitution and correction of incorrect sentences, (including items covered in the exercise contained in the book of essays). 20 Marks
Q8. One essay type question with internal choice on The Spectrum of life : A Selection of Modern Essays. 20 Marks
पाठ्य-पुस्तक विषय

1. हरियाणवी लोकधारा : सम्पादक डॉट मीता गोतम प्रोफेसर हिंदी विभाग, कुरुक्षेत्र विश्वविद्यालय, कुरुक्षेत्र।
   1 गर्हितदास 2. नितांतां 3. बाज भगत 4. लखनी बन्द 5. मागे राम 6. साहू राम 7. बसीराम 8. पौजी मेहर सिंह 9. तारा दत्त विलक्षण 10. जयनाराम कौशिक 11. जगदीश चंद्र वस्तु 12. भारत भूषण साधीवाला।

नोट : कवि परिचय, व्याख्या एवं प्रश्न लिखिए गए कवियों में से पूछे जाएंगे। गद्द भाग में से आसा की किरण (हरियाणवी कहानी) साभू और (हरियाणवी नाटक) तथा स्वर जयन्ती (हरियाणवी एकांकी) पादयक्षम में रखे गये हैं।

2. प्रयोजनमुलक हिंदी और कायांग – डॉट नरेश मिश्र अभिनव प्रकाशन, नई सड़क दिल्ली।

निर्देश :-

1. हरियाणवी जनपदीय भाषा और साहित्य पर आधारित कवियों में से व्याख्या के लिए चार अक्तरण पूछे जाएंगे। परीक्षाधिकारियों को इनमें से दो की व्याख्या करनी होगी। प्रत्येक व्याख्या 6 अंकों की होगी। अंक 12

2. निर्देश कवियों में से किन्हीं दो कवियों का साहित्यिक परिचय पूछा जाएगा। परीक्षाधिकारियों को इनमें से किसी एक का परिचय देना होगा। यह प्रश्न 8 अंकों का होगा। अंक 8

3. निर्धारित कवियों की अनुशीलनी में दिए गए प्रश्नों में से चार प्रश्न पूछे जाईंगे। परीक्षाधिकारियों को इनमें से किन्हीं दो का उत्तर देना होगा। प्रत्येक प्रश्न 6 अंकों का होगा। अंक 12

4. गद्द भाग में से पूछे गए दो आलोचनात्मक प्रश्नों में से कोई एक प्रश्न करना होगा। यह प्रश्न 10 अंकों का होगा। अंक 10

5. प्रयोजनमुलक हिंदी और कायांग पर आधारित पादयक्षम से 4 प्रश्न पूछा जाएगा, इनमें से परीक्षाधिकारियों को दो प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न 10 अंकों का होगा। अंक 20

6. हिंदी साहित्य का इतिहास (आदिकाल और मध्यकाल) से 4 प्रश्न पूछे जाएंगे इनमें से किन्हीं दो प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न 10 अंकों का होगा। अंक 20

7. हिंदी साहित्य का इतिहास (आदिकाल-मध्यकाल) और प्रयोजनमुलक हिंदी पादय पुस्तक दोनों में से 5-5 अक्तरण प्रश्न पूछे जाएंगे, इनमें से किन्हीं पाँच प्रश्नों के लगभग 50 अंकों में उत्तर देने होंगे। प्रत्येक प्रश्न 2 अंक का होगा और पूरा 10 अंकों का होगा। अंक 10

8. कायांग से दो रसों के और दो अलंकारों के सीटकारण लक्ष्य पूछे जाएंगे। इनमें से एक रस और एक अलंकार का लक्ष्य सीटकारण लिखना होगा। जिसके लिए चार अंक निर्धारित हैं तथा पूरा प्रश्न 8 अंकों का होगा। अंक 8
Note: Examiner will be required to set NINE questions in all. Question no. 1 will be compulsory which consists of 12 short answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Question no. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Section I
1. Decline of Feudalism and the rise of the modern Era-Renaissance and Reformation.
3. Rise of absolutist state; France, Spain and Britain.
5. Glorious Revolution (1688)
6. American Revolution (1776)
7. European exploitation of Asia and Africa.

Section II
1. Liberalism in England, American Civil War, Socialist and Marxist Thought.
2. Nationalism in Europe
   i. Ideology of nationalism
   ii. Germany and Italy
4. Japan’s Modernization and Rise as a World Power.
5. First World War and Peace Settlements.
7. Emergence of USA as a World Power.
8. Economic depression, Emergence of Nazism and Fascism.

Section III
Maps
1. On an outline map of Europe show the countries which with Agriculture Revolution during the 16th-19th centuries.
2. Europe on the eve of French Revolution.
3. Unification of Italy.
4. Unification of Germany.

Section IV
Objective type Short Answer Questions:
ECONOMICS
DEVELOPMENT & ENVIRONMENTAL ECONOMICS AND
INTERNATIONAL TRADE
PAPER CODE: BA3004

Marks: 100
Time: 3Hrs

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Part-A (DEVELOPMENT AND ENVIRONMENTAL ECONOMICS)

Unit 1
Economic growth and development Determinants and measurement of development : vicious circle of poverty-
Development with unlimited supply of labour (Leneis Model), - Balanced and unbalanced growth; critical minimum effort
thesis (Harvey Leibenstein).

Unit II
Environment as a necessity and luxury; Population environment linkage; Market failure in case of environmental good;
environment as a public good; Prevention and Control of Pollution; Environment as a public good; Prevention and control
of pollution Environmental legislation; Meaning, importance and indicators. Sustainable development.

Part- B (International Economics)

Unit III
Meaning of balance of payments equilibrium. Causes and effect of BOP disequilibrium and corrective measures; Foreign
trade multiplier; functions of IMF, World Bank and WTO; changes in the composition and direction of foreign trade of
India since 1991. Cause of persistent deficit in India’s BOP and corrective measures.

Reading List :
PUBLIC ADMINISTRATION
OPTION-2- LOCAL GOVERNMENT AND ADMINISTRATION IN INDIA
PAPER CODE: BA3005

Marks: 100

Time: 3Hrs

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

Local Government : Meaning and significance, evaluation of Local Government in India since 1882.

Deputy Commissioner : his role and position in the context of planning and Development at district level,
Divisional Commissioner : his role and position, State Headquarter’s control over district Administration.

Rural Local Government : Zila Parishad, Panchayat Samiti and Panchayat : Their composition, function, finances, personnel State Government’s control over their working, role of political parties in Panchayati Raj, 73rd Constitutional amendment 1992. Role of State and Union Government in regard to Panchayati Rural Institutions in Policy, assistance training and general control problems rural –urban relationship.
POLITICAL SCIENCE
OPTION -1-COMPARATIVE GOVERNMENT AND POLITICS
PAPER CODE: BA3006

Marks: 100 Time: 3 Hrs

Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 12 short-answer type questions each of 2 marks covering the entire syllabus out of which candidate will be required to attempt ten questions. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 20 marks.

(Government and Politics of UK, USA, China, Switzerland)

Part A
Approaches to the study of comparative Politics.
Constitution and constitutionalism
Constitution Structures: Executive, Legislature and Judiciary
Political Culture.

Part B
Political parties and Party Systems
Interest Groups and Pressure Groups
State and Local Government
Socio-Economic bases of the constitution
Women and the Politics Process

Part C
Short answer questions, at least five, spread over the entire syllabus, Objective Type (Multiple choice) questions spread over the whole syllabus.

Suggested Readings
Inter-Parliamentary Union, Women in National Parliaments, 2000.
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 7 short-answer type questions each of 1 mark covering the entire syllabus. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 7 marks.

Section - I
Riemann integral Integrability of continuous and monotonic functions. The fundamental theorem of integral calculus, Mean value theorems of integral calculus. Countable and uncountable sets. Cantor’s set series of arbitrary terms. Convergence, divergence and oscillation, abel’s Dirichlet’s tests, Multiplication of series, Double series.

Section- II

Section- III

Section-IV

Books Recommended
Babu Ram, Metric Spaces, Vinayaka Publishers, New Delhi.
Mursaleem-Elements of Metric Spaces, Anamaya Publications, New Delhi.
Peter V.O. Neil, Advanced Engineering Mathematics, 11 Company, USA.
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 7 short-answer type questions each of 1 mark covering the entire syllabus. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 7 marks.

Section I

Section II
Ring theory-Ring homomorphism, Ideals and Quotient Rings. Field of Quantients of an Integral Domain. Euclidean Rings. Polynomial, Rings. Polynomials over the Rational Field. The Eisenstein Criterion. Polynomial Rings over Commutative Rings. Unique factorization domain. Unique factorization domain implies so is $R[x_1, x_2, \ldots, x_n].$

Section III

Section IV

Books Recommended
   (also published by Hindustan Publishing Company).
Note: Examiner will be required to set NINE questions in all. Question No. 1 will be compulsory which consists of 6 short-answer type questions each of 1 mark covering the entire syllabus. In addition to Q.No. 1, candidate will be required to attempt four more questions from the remaining eight questions each carrying 6 marks.

Section I

Section II
Arrays Puppeting of string. Structures Pointers, File formatting.

Section III


Section IV

Books Recommended
SANSKRIT
PAPER CODE: BA3008

Time: 3Hrs
Marks: 100

Unit-I संस्कृत वाण्यवहार
अंक 10
संस्कृत व्यवहार साहित्य (प्रकाशक संस्कृत भारती, माता मन्दिर गली, झण्डेवालान, नई दिल्ली (19 वाणिज्यम् 20 वातावरणम् 21 गृहसम्भाषणम् 22 पितरं: पुत्र: च 23 माता पितरी 24 पुत्र: 25 अतिथि: 26 संकीर्ण वाक्यानि)

Unit-II संस्कृत प्रणयानुशीलनम्
अंक 25
अभिज्ञानशास्त्रलिम्बम् (हलोकों व सूक्तियों की व्याख्या, आलोचनात्मक प्रश्न व सा)

Unit-III संस्कृत साहित्येऽतिहास:
अंक 20
(क) संहिता, ब्राह्मण, आर्यप्रक, उपनिषद् व वेदादि ग साहित्य
(ख) रामायण, महाभारत, अवधोष, भाषा, कालिदास, बाणमद्वत, सुबन्धु, दण्डी, भामूर्ति, भारवि, श्री हर्ष, माघ, अभिकादत व्यास
(लेखकों व कृतियों का सामान्य परिचय)

Unit-IV लघु सिद्धातकोपुदी
अंक 25
(क) कारक प्रकरण
(ख) रञ्जी प्रत्यय प्रकरण
(अशुद्धि शोधन, वाक्य रचना व सूत्रों की व्याख्या)

Unit-V अलंकारः निबन्धवर्ण
अंक 20
(क) अलंकारः अनुप्रास, शैलेश, यमक, उपमा, उल्लेख, लुपक, अर्थात्तरन्यास, अतिशयोक्तिः, विभावना, विशेषोक्तिः
(ख) सरल विषयों पर सरल संस्कृत में निबन्ध

दिशा निर्देश—
Unit I: आठ में से किन्हीं पाँच प्रश्नों के संस्कृत में उत्तर 5x2=10
Unit II: (क) चार में से दो स्लोकों की व्याख्या 2x6=12
(ख) दो में से एक सूक्ति की व्याख्या 1x8=08
(ग) चरित्र चित्रण अथवा अंक सा 1x5=05
Unit III: (क) दो में से एक प्रश्न 1x8=08
(ख) चार में से दो टिपणी 2x6=12
Unit IV: (क) i. चार में से दो सूची की व्याख्या 2x5=10
ii. चार अशुद्ध प्रयोगों में से दो को शुद्ध करना 2x5=10
(ख) आठ में से पाँच पदों में प्रकृति आथवा प्रत्यय प्रदर्शन 5x1=05
Unit V: (क) चार में से दो अलंकारों के लक्षण व उदाहरण 2x5=10
(ख) चार में से एक विषय पर संस्कृत में निबन्ध लेखन 1x10=10