

GENERAL HINDI

The Question paper shall be of **TWO HOURS** duration.

MM: 70

इकाई - I पद्य

- (i) मैथिलीशरण गुप्त: भारत की श्रेष्ठता
(ii) सुमित्रा नन्दन पंत: बापू, प्रथम रश्मि
(iii) सूर्य कान्त त्रिपाठी निराला: जागो फिर एक बार, तोड़ती पत्थर
(iv) रामधारी सिंह दिनकर: हिमालय, बुद्ध देव (बोधिसत्व)

इकाई- II गद्य

- (i) बालमुकुन्द गुप्त: एक दुराशा
(ii) हजारी प्रसाद द्विवेदी: शिरीष के फूल
(iii) कुवेर नाथ राय: हरी हरी दूब और लाचार क्रोध
(iv) हरी शंकर परसाई: इंस्पेक्टर मातादीन चांद पर

इकाई- III शब्द संपदा

- (i) विलोम (ii) पर्यायवाची (iii) अनेकार्थक (iv) वाक्यांश के लिये एक शब्द (v) मुहावरे और लोकोक्ति

इकाई- IV शुद्धिकरण एवं प्रयोग

- (i) शब्द और वाक्य शुद्धि
(ii) शब्द एवं वाक्य प्रयोग

इकाई- V शब्द निर्माण

- (i) उपसर्ग
(ii) प्रत्यय

GENERAL ENGLISH

The Question paper shall be of **TWO HOURS** duration.

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Objectives:

- Reinforcing selected components of grammar and usages.
- Facilitating comprehension of a prose passage.
- To introduce the students to proper usage of dictionary and thesaurus.

Unit – I (Vocabulary)

- How to use a dictionary and thesaurus.
- Word formation: Prefix and suffix.

Unit – II (Grammar and Usage – I)

Transformation of sentences.

- Direct and indirect narration.
- Active and passive Voice.
- Interchange of Degrees of Comparison.

Unit – III (Grammar and Usage – II)

- Sequence of Tenses.
- Prepositions.

Unit – IV (Grammar and Usage – III)

- Modal Auxiliaries.
- Articles.

Unit – V (Comprehension)

- Comprehension of an unseen passage.

Suggested Reading:

1. A University Grammar of English by Quirk and Greenbaum.
2. A Foundation English Course for Undergraduates. Ed. Gunashekhar
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4. A Guide to Patterns and Usage by AS Hornby.

ENVIRONMENTAL STUDIES

Scheme of examination:

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3. Q. No. 2 shall contain 8 (Eight) Short-Answer-Type-Questions. Word limit for each question is 100 words. **Candidate has to attempt any five.** Each question shall carry **Four** marks. (5 X 4 = 20 marks).
4. Q. No. 3 shall contain 4 (Four) Essay-Type-Questions. Word limit for each question is 500 words. **Candidate has to attempt any two.** Each question shall carry **Fifteen** marks. (2 X 15 = 30 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 forest and tribal people.
- Water Resources: Use and over exploitation of surface and ground water, Floods, draught, conflicts over water, dams- benefits and problems.
- Mineral Resources: Use and exploitation, 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 need, renewable and non-renewable energy sources, use of alternate energy sources, case studies.

- Land Resources: Land as a resource, land degradation, man included landslides, soil erosion and desertification.
- Role of an individual in conservation of natural resources.
- Equitable use of resources for sustainable lifestyles.

UNIT-III

Ecosystems

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

Format of the Question Paper

Q. 1 (Multiple Choice Question). Attempt all.

- (i).....
 - (a).....
 - (b).....
 - (c).....
 - (d).....
- (ii).....
- (iii).....
- (iv).....
- (v).....
- (vi).....
- (vii).....
- (viii).....
- (ix).....
- (x).....
- (xi).....
- (xii).....
- (xiii).....
- (xiv).....
- (xv).....
- (xvi).....
- (xvii).....
- (xviii).....
- (xix).....
- (xx).....

(1 X 20 = 20)

Q. 2 (Short Answer Type Question). Attempt any FIVE. Word limit 100 words for each.

- (i).....
- (ii).....
- (iii).....
- (iv).....
- (v).....
- (vi).....
- (vii).....
- (viii).....

(5 X 4 = 20)

Q. 3 (Essay Type Question). Attempt any TWO. Word limit 500 words for each.

- (i).....
- (ii).....
- (iii).....
- (iv).....

(2 X 15 = 30)

ELEMENTARY COMPUTER APPLICATIONS

Scheme of examination:

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UNIT – I**Introduction to computers and related terminology:****(Basic information only)**

(A) Hardware: CPU (Mother board, Microprocessors, (The Intel Pentium III, AMD and Cyrix), MMX technology, System clock, Address Bus, Data Bus, (PCI and ESIC) Cache Memory, Processing speed, Expansion slots (Video controller, sound Card, SCSI, Network Card), Memory – (Unit, RAM, ROM, EDO, RAM, SI, RAM), Input and Output devices- Keyboard (The standard Keyboard layout), Mouse, Printers (Dot matrix, Inkjet, Laser Jet), Microphone, Speakers, Digital Cameras), Storage devices – (Diskette Drive (Types, Density, Formatting Boot Record, FAT, Folder, Directory), Hard Disk Drive, CD ROM DRIVE, (CD ROM Speeds), CD-R Drive, DVD ROM Drive, Tape Drive.

(B) Software: Introduction to programming languages, System software (Operating Systems and Utilities), Application software (Word Processors, Spreadsheets, DBMS, Presentation

Graphics, Browsers, Personal Information Managers) Introduction to Multilingual Word-Processors.

(C) Communications and Connectivity: Data Communication System, Data Transmission (Serial, Parallel, Bandwidth, Protocols), Emails, FAX, Voice and video massaging, Video Conferencing, Online service user connection (Types), Networking of Computers, (Node, Client, Server, LAN, WAN), Using the Network, the internet and the Web.

UNIT – II

The Internet and Online Resources:

(Working Knowledge at Common Users Level only)

How the internet works, Introduction to (TCP/IP, and DNS Addresses. Features of the internet – (Email, News, Telnet, Chat, Channels, WWW, Online Services, Bulletin Board Services), Connection wizard, Overview of the internet explorer 5 and features therein, use of search engines, Surfing, creating and use of email, Awareness about e-commerce and its advantages.

Format of the Question Paper

Q. 1 (Multiple Choice Question). Attempt all.

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 - (a).....
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- (xviii).....
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- (xx).....

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Q. 2 (Short Answer Type Question). Attempt any FIVE. Word limit 100 words for each.

- (i).....
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(5 X 4 = 20)

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इकाई - I पद्य

- (i) हरिवंश राय बच्चन: पथ की पहचान लहरों का निमंत्रण
(ii) केदार नाथ अग्रवाल: मैंने उसको देखा यह धरती है उस किसान की
(iii) सुभद्रा कुमारी चौहान: झांसी की रानी प्रभु तुम मेरे मन की जानो
(iv) नागार्जुन: कालिदास के प्रति प्रेत के वयान

इकाई - II गद्य

- (i) अमृत लाल बेगड: महाराजपुर से ग्वारीघाट
(ii) विजय दान देथा: उजाले के मुसाहिव
(iii) महादेवी वर्मा: सिस्तर का वास्ते
(iv) कन्हैया लाल मिश्र प्रभाकर: मैं और मैं

इकाई - III

- (i) संक्षेपण (ii) पल्लवन (iii) प्रारूप

इकाई - IV

प्रयोजनमूलक हिन्दी के मुख्य तत्व

- (i) पारिभाषिक शब्दावली: वर्गीकरण एवं प्रयोग

इकाई - V

निबन्ध किसी सामान्य विषय पर लगभग 500 शब्दों का निबन्ध

GENERAL ENGLISH

The Question paper shall be of **TWO HOURS** duration.

MM: 70

Objectives:

- Introducing students to Phonetics, correct their pronunciation and word stress.
- Strengthening compositional skills.
- Introducing students to writing of notices, advertisements and poster making skills.

Unit – I (Phonetics)**10 Marks**

- Transcription of Phonetic symbols.
- Wordstress.

Unit – II (Writing Skills)**20 Marks**

- CV's and Job Applications.
- Precis Writing.

Unit – III (Compositional Skills)**20 Marks**

- Letter Writing (Formal and informal)
- Paragraph Writing.

Unit – IV (Writing Skills)**10 Marks**

- Notice Writing.

Unit – V (Use of Imagining Faculty)**10 Marks**

- Writing Advertisements.
- Poster Making.

Suggested Reading:

1. CVs and Job Applications by Judith Leigh.
2. English at workplace. Eds: Panja, Sawhney & Verma.
3. Professional Communication by R P Singh.
4. English made simple by Arthur Waldhorn and Arthur Zeiger.
5. The Written Word by Vandana R Singh.
6. Technical Writing by Sunder Rajan.

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UNIT – I**Biodiversity and its conservation.**

- Introduction – Definition: genetic, species and ecosystem diversity.
- Bio geographical 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 region.
- Hot spots of biodiversity.
- Threats to biodiversity – habitat loss, poaching of wild life, man – wildlife conflicts.
- Endangered and endemic species of India.
- Conservation of biodiversity: *in situ* and *ex situ* conservation of biodiversity.

Unit – II**Environmental Pollutions:**

1. Definition, causes, effects and control measures of
 - Air Pollution,
 - Water Pollution,

- Soil Pollution,
 - Marine Pollution,
 - Noise Pollution,
 - Thermal Pollution,
 - Nuclear Pollution,
2. Solid waste management: Causes, effects and control measures of urban and industrial waste.
 3. Disaster management: Floods, earthquakes, cyclone and landslides.

UNIT-III

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.
- Environmental protection laws in India.
- Population growth, variation among nations.
- Population explosion – family welfare programmes.
- Environment and Human Health.

Format of the Question Paper

Q. 1 (Multiple Choice Question). Attempt all.

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(1 X 20 = 20)

Q. 2 (Short Answer Type Question). Attempt any FIVE. Word limit 100 words for each.

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(5 X 4 = 20)

Q. 3 (Essay Type Question). Attempt any TWO. Word limit 500 words for each.

- (i).....
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UNIT I**OPERATING SYSTEMS (Working knowledge at common users level only):**

OVERVIEW OF IMPORTANT dos COMMANDS, Windows 98: Installation, Scandisk, Control Panel, Taskbar, Toolbars, Display settings (Background, wallpapers, screensavers, Desktop themes), Files and Folder management, Windows Explorer, Finding Files and Folders Formatting Disks and copying files, Printer settings, Modem installation, mouse installation, Adding and removing programmes, Active desktop Concepts, Winzip and its application, Norton antivirus and its use, Use of calculator, Paintbrush, win amp, MPEG player and windows help.

UNIT II**Application Software (Working knowledge at common users level only):****(a) Word processing software – MS Word**

Entering, editing and formatting text, Document formats (Page size and Orientation, Headers and Footers, Columns and Sections, Page layout), Spelling and grammar checks,

Thesaurus, Find and replace, cut and Paste, Table and Formatting tables, Mail Merge, Styles and Templates.

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Database, Entering data into the database, Creating database tables, editing data, viewing records, sorting records, querying a database, generating reports.

Format of the Question Paper

Q. 1 (Multiple Choice Question). Attempt all.

- (i).....
 - (a).....
 - (b).....
 - (c).....
 - (d).....
- (ii).....
- (iii).....
- (iv).....
- (v).....
- (vi).....
- (vii).....
- (viii).....
- (ix).....
- (x).....
- (xi).....
- (xii).....
- (xiii).....
- (xiv).....
- (xv).....
- (xvi).....
- (xvii).....
- (xviii).....
- (xix).....
- (xx).....

(1 X 20 = 20)

Q. 2 (Short Answer Type Question). Attempt any FIVE. Word limit 100 words for each.

- (i).....
- (ii).....
- (iii).....
- (iv).....
- (v).....
- (vi).....
- (vii).....
- (viii).....

(5 X 4 = 20)

Q. 3 (Essay Type Question). Attempt any TWO. Word limit 500 words for each.

- (i).....
- (ii).....
- (iii).....
- (iv).....

(2 X 15 = 30)

GENERAL HINDI

The Question paper shall be of **TWO HOURS** duration.

MM: 70

इकाई - I पद्य

- (i) हरिवंश राय बच्चन: पथ की पहचान लहरों का निमंत्रण
(ii) केदार नाथ अग्रवाल: मैंने उसको देखा यह धरती है उस किसान की
(iii) सुभद्रा कुमारी चौहान: झांसी की रानी प्रभु तुम मेरे मन की जानो
(iv) नागार्जुन: कालिदास के प्रति प्रेत के वयान

इकाई - II गद्य

- (i) अमृत लाल बेगड: महाराजपुर से ग्वारीघाट
(ii) विजय दान देथा: उजाले के मुसाहिव
(iii) महादेवी वर्मा: सिस्तर का वास्ते
(iv) कन्हैया लाल मिश्र प्रभाकर: मैं और मैं

इकाई - III

- (i) संक्षेपण (ii) पल्लवन (iii) प्रारूप

इकाई - IV

प्रयोजनमूलक हिन्दी के मुख्य तत्व

- (i) पारिभाषिक शब्दावली: वर्गीकरण एवं प्रयोग

इकाई - V

निबन्ध किसी सामान्य विषय पर लगभग 500 शब्दों का निबन्ध

GENERAL ENGLISH

The Question paper shall be of **TWO HOURS** duration.

MM: 70

Objectives:

- Introducing students to Phonetics, correct their pronunciation and word stress.
- Strengthening compositional skills.
- Introducing students to writing of notices, advertisements and poster making skills.

Unit – I (Phonetics)**10 Marks**

- Transcription of Phonetic symbols.
- Wordstress.

Unit – II (Writing Skills)**20 Marks**

- CV's and Job Applications.
- Precis Writing.

Unit – III (Compositional Skills)**20 Marks**

- Letter Writing (Formal and informal)
- Paragraph Writing.

Unit – IV (Writing Skills)**10 Marks**

- Notice Writing.

Unit – V (Use of Imagining Faculty)**10 Marks**

- Writing Advertisements.
- Poster Making.

Suggested Reading:

1. CVs and Job Applications by Judith Leigh.
2. English at workplace. Eds: Panja, Sawhney & Verma.
3. Professional Communication by R P Singh.
4. English made simple by Arthur Waldhorn and Arthur Zeiger.
5. The Written Word by Vandana R Singh.
6. Technical Writing by Sunder Rajan.

ENVIRONMENTAL STUDIES

Scheme of examination:

MM: 70

1. The Question paper shall be of **TWO HOURS** duration.
2. Q. No. 1 shall contain 20 (Twenty) objective type questions having four options, out of which one shall be correct. Each question shall carry one mark. (1 X 20 = 20 marks)
3. Q. No. 2 shall contain 8 (Eight) Short-Answer-Type-Questions. Word limit for each question is 100 words. **Candidate has to attempt any five.** Each question shall carry **Four** marks. (5 X 4 = 20 marks).
4. Q. No. 3 shall contain 4 (Four) Essay-Type-Questions. Word limit for each question is 500 words. **Candidate has to attempt any two.** Each question shall carry **Fifteen** marks. (2 X 15 = 30 marks).

UNIT – I**Biodiversity and its conservation.**

- Introduction – Definition: genetic, species and ecosystem diversity.
- Bio geographical 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 region.
- Hot spots of biodiversity.
- Threats to biodiversity – habitat loss, poaching of wild life, man – wildlife conflicts.
- Endangered and endemic species of India.
- Conservation of biodiversity: *in situ* and *ex situ* conservation of biodiversity.

Unit – II**Environmental Pollutions:**

1. Definition, causes, effects and control measures of
 - Air Pollution,
 - Water Pollution,

- Soil Pollution,
 - Marine Pollution,
 - Noise Pollution,
 - Thermal Pollution,
 - Nuclear Pollution,
2. Solid waste management: Causes, effects and control measures of urban and industrial waste.
 3. Disaster management: Floods, earthquakes, cyclone and landslides.

UNIT-III

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.
- Environmental protection laws in India.
- Population growth, variation among nations.
- Population explosion – family welfare programmes.
- Environment and Human Health.

Format of the Question Paper

Q. 1 (Multiple Choice Question). Attempt all.

- (i).....
 - (a).....
 - (b).....
 - (c).....
 - (d).....
- (ii).....
- (iii).....
- (iv).....
- (v).....
- (vi).....
- (vii).....
- (viii).....
- (ix).....
- (x).....
- (xi).....
- (xii).....
- (xiii).....
- (xiv).....
- (xv).....
- (xvi).....
- (xvii).....
- (xviii).....
- (xix).....
- (xx).....

(1 X 20 = 20)

Q. 2 (Short Answer Type Question). Attempt any FIVE. Word limit 100 words for each.

- (i).....
- (ii).....
- (iii).....
- (iv).....
- (v).....
- (vi).....
- (vii).....
- (viii).....

(5 X 4 = 20)

Q. 3 (Essay Type Question). Attempt any TWO. Word limit 500 words for each.

- (i).....
- (ii).....
- (iii).....
- (iv).....

(2 X 15 = 30)

ELEMENTARY COMPUTER APPLICATIONS

Scheme of examination:

MM: 70

1. The Question paper shall be of **TWO HOURS** duration.
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 4. Q. No. 3 shall contain 4 (Four) Essay-Type-Questions. Word limit for each question is 500 words. **Candidate has to attempt any two.** Each question shall carry **Fifteen** marks. (2 X 15 = 30 marks).
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Format of the Question Paper

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Q. 3 (Essay Type Question). Attempt any TWO. Word limit 500 words for each.

- (i).....
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- (iv).....

(2 X 15 = 30)