

This question paper contains 2 printed pages]

CA—1002—2025

FACULTY OF ALL

B.A./B.Com./B.Sc. (First Year) (Second Semester) EXAMINATION

NOVEMBER/DECEMBER, 2025

(NEP-2020 Pattern)

INDIAN KNOWLEDGE SYSTEM

Paper IKS-1101

(Undergraduate level students studying across all faculties)

(Tuesday, 11-11-2025)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—30

N.B. :— (i) All questions carry equal marks.

(ii) Question No. 1 is compulsory.

(iii) Attempt any *two* of the remaining four questions (Q. Nos. 2 to 5).

(iv) Figures to the right indicate full marks.

(i) सर्व प्रश्नांना समान गुण आहेत.

(ii) प्रश्न क्र. 1 अनिवार्य आहे.

(iii) उर्वरित चार प्रश्नांपैकी (प्रश्न क्र. 2 ते प्रश्न क्र. 5) कोणतेही दोन प्रश्न सोडवा.

(iv) उजवीकडील अंक पूर्ण गुण दर्शवितात.

1. Solve the following questions (2.5 marks each) :

10

(a) What is the main objective of the Indian Knowledge System ?

(b) What is the difference between Astika and Nastika traditions ?

(c) Who were the ancient Indian dramatists ? Describe their plays and contributions.

(d) Write any *two* ancient methods of water conservation.

P.T.O.

खालील प्रश्न सोडवा (प्रत्येकी 2.5 गुण) :

- (अ) भारतीय ज्ञान प्रणालीचे मुख्य उद्दिष्ट काय आहे ?
- (ब) आस्तिक व नास्तिक संप्रदाय यांमध्ये काय फरक आहे ?
- (क) प्राचीन भारतीय नाटककार कोण होते ? त्यांच्या नाटकांचे आणि योगदानाचे वर्णन करा.
- (ड) जलसंधारणासाठी प्राचीन काळातील दोन पद्धती लिहा.

2. Discuss the structure and outcomes of the Gurukul tradition in the ancient education system. 10

प्राचीन शिक्षण पद्धतीतील गुरुकुल परंपरेची रचना आणि परिणामांची चर्चा करा.

3. Place and compare the positions of Buddhism, Jainism and Charvaka in the Nastika (non-orthodox) traditions of Indian philosophy. 10

भारतीय तत्त्वज्ञानातील नास्तिक परंपरेत बौद्ध, जैन आणि चार्वाक यांचे स्थान मांडून त्यांची तुलना करा.

4. According to Indian philosophy, what is Purushartha and what are its four main aspects ? Explain the significance of these four Purusharthas and how they impact life. 10

भारतीय तत्त्वज्ञानानुसार पुरुषार्थ म्हणजे काय आणि त्याचे चार प्रमुख अंग कोणती आहेत ? या चार पुरुषार्थांचे महत्त्व आणि त्यांचा जीवनावर कसा प्रभाव पडतो, हे स्पष्ट करा.

5. Elaborate on the development of astronomy during the Vedic and post-Vedic periods. 10

वैदिक व उत्तरवैदिक काळातील खगोलशास्त्राचा विकास विशद करा.

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CA—01—2025

**FACULTY OF HUMANITIES, SCIENCE AND TECHNOLOGY,
COMMERCE AND MANAGEMENT**

B.A./B.Sc./B.Com. (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2025

(NEP-2020)

ENGLISH (Compulsory)

Paper HENGAEC-1101

(Developing Spoken Communication–I)

(Thursday, 13-11-2025)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—30

N.B. :— (i) Question No. 1 is compulsory.

(ii) Attempt any *two* questions from Q. No. 2 to Q. No. 5.

(iii) Figures to the right indicate full marks.

1. Write short notes on :

10

(i) Body language

(ii) Question tags

(iii) Compering

(iv) Principles of effective conversation.

P.T.O.

2. Explain the types of verbal communication. 10
3. Write *five* common self-introduction questions along with their answer, covering the following points : 10
name, address, education, food habits and hobbies.
4. What is a welcome speech ? Explain the important tips for an effective welcome speech. 10
5. Your college is planning a trip to Deogiri Fort. Write a conversation in which you convince your friend to join the trip. 10

This question paper contains 2 printed pages]

CA—11—2025

FACULTY OF HUMANITIES

B.A./B.Com./B.Sc. (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2025

MARATHI (MIL)

Paper AEC MAR-1101

(गद्य, पद्य व उपयोजित मराठी-I)

(Saturday, 15-11-2025)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—30

N.B. :— (i) पहिला प्रश्न सोडविणे अनिवार्य आहे.

(ii) सर्व प्रश्नांना समान गुण आहेत.

1. थोडक्यात टिपा लिहा :

10

(अ) इतिवृत्ताचे स्वरूप

(ब) 'काळ्या तोंडाची' कथेतील चंपी

(क) 'महाराजा सयाजीराव गायकवाड' यांचे कार्ये

(ड) 'अंदाज आरशाचा' मधील प्रेमाविष्कार.

P.T.O.

पुढील प्रश्न क्रमांक 2 ते 5 यामधील कोणतेही दोन प्रश्न सोडवा : 20

2. ताराबाई शिंदे यांनी निबंधातून स्त्रीवर होणाऱ्या अन्यायाचे वर्णन कसे केले आहे ? ते लिहा.
3. लेखकाच्या जीवन संघर्षाचे चित्रण 'प्रयत्नवादी-जीवनप्रवास' या पाठाधारे विशद करा.
4. दिनकर साळवे यांच्या कवितेतून स्त्री जीवनाचे दुःख कसे प्रकट झाले आहे ते स्पष्ट करा.
5. कार्यालयीन पत्रलेखनाचे स्वरूप विशद करा.

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CA—10—2025

FACULTY OF HUMANITIES

B.A./B.Sc./B.Com. (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2025

HINDI (MIL)

(Sahitya Kalash Aur Vyavaharic Hindi Part-I)

HHINMIL-1101

(साहित्य कलश और व्यावहारिक हिंदी भाग-I)

(Saturday, 15-11-2025)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—30

N.B. :- (i) पहला प्रश्न अनिवार्य है।

(ii) प्रश्न क्रमांक 2 से 5 में से किन्हीं दो प्रश्नों के उत्तर लिखिए।

(iii) सभी प्रश्नों के समान अंक हैं।

1. टिप्पणियाँ लिखिए :

10

(अ) 'सरहद के इस पार कहानी' का रेहान

(ब) हरिवंशराय बच्चन का सामान्य परिचय

(क) ब्लॉग लेखन का अर्थ

(ड) दूरदर्शन के विज्ञापन की विशेषताएँ।

P.T.O.

WT

(2)

CA—10—2025

2. 'पंच परमेश्वर' कहानी की कथावस्तु लिखिए। 10
3. 'नर हो, न निराश करो मन को', कविता में व्यक्त संदेश पर प्रकाश डालिए। 10
4. ब्लॉग लेखन की उपयोगिता लिखिए। 10
5. आकाशवाणी के विज्ञापन की विशेषताएँ लिखिए। 10

CA—10—2025

2

Total No. of Printed Pages:01

SUBJECT CODE NO - NEPGB-101-2025
FACULTY OF SCIENCE AND TECHNOLOGY
EXAMINATION WINTER 2025
B.SC (FIRST YEAR) (SEM-I)
BIOTECHNOLOGY
BASICS OF CELL BIOLOGY

[Time: 2:00 Hours]

[Max.Marks:30]

“Please check whether you have got the right question paper.”

N.B.

1. Question No. 1 is compulsory.
2. From remaining questions, Solve any two questions.
3. Draw neat diagram wherever necessary.

Q.1 Write short notes on

10

- a) Cell Theory
- b) Phagocytosis
- c) Lysosomes
- d) Prophase-I

Q.2 Describe in detail structural organization of prokaryotes .

10

Q.3 Explain in brief structure and function of plant cell wall.

10

Q.4 Give an account on Endoplasmic Reticulum.

10

Q.5 Describe in brief structure and function of mitochondria.

10

Total No. of Printed Pages:1

SUBJECT CODE NO:- NEPGB-102-2025
FACULTY OF SCIENCE & TECHNOLOGY
EXAMINATION WINTER 2025
B.Sc.(FIRST YEAR) (SEM -I)
BIOTECHNOLOGY
BIOCHEMISTRY -I

[Time: 2:00 Hours]

[Max.Marks:30]

“Please check whether you have got the right question paper.”

- N.B.
- 1] Question no. 1 is compulsory
 - 2] From remaining attempt **any two**
 - 3] Represent your answers with well labelled diagrams whenever necessary.

- Q.1 Write a note on** **10M**
- a) Monosaccharides
 - b) Amino acids
 - c) Cholesterol
 - d) Z-DNA
- Q.2 Describe in detail structure, properties and hydrolysis of Sucrose?** **10M**
- Q.3 Describe in detail Classification of proteins based on shape and composition?** **10M**
- Q.4 Describe in detail fat soluble vitamins?** **10M**
- Q.5 Explain types of RNA?** **10M**

Total No. of Printed Pages:1

SUBJECT CODE NO: NEPGB-103-2025
FACULTY OF SCIENCE AND TECHNOLOGY
Examination Winter-2025
B.Sc. (Bio-Technology) NEP - Sem I
Basics of Microbiology

[Time: 2:00Hours]

[Max. Marks:30]

Please check whether you have got the right question paper.

N. B

- 1) Question No.1 is compulsory .
- 2) From remaining question attempt any two question.
- 3) Draw diagram whenever necessary.

- Q1 Write short note on following** **10**
- a) Joseph lister
 - b) Negative staining
 - c) Cytoplasm
 - d) Filtration
- Q2** What is Spontaneous generation describe in detail controversy over spontaneous generation? **10**
- Q3** Describe principles and applications of bacterial staining. **10**
- Q4** Describe in detail structure and chemical composition of capsule of bacteria. **10**
- Q5** Describe in detail Pasteurization **10**

This question paper contains 2 printed pages]

CA—1003—2025

FACULTY OF ALL

B.A./B.Com./B.Sc. (First Year) (Second Semester) EXAMINATION

NOVEMBER/DECEMBER, 2025

(NEP-2020 Pattern)

VALUE EDUCATION

Paper VECCOI-1151

(Constitution of India)

(Wednesday, 12-11-2025)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—30

N.B. :— (i) Question No. 1 is compulsory.

(ii) Students are required to solve a total of *three* questions.

(iii) Students need to solve any *two* of the remaining four questions
(Q. No. 2 to Q. No. 5).

(i) प्रश्न क्र. 1 अनिवार्य आहे.

(ii) विद्यार्थ्यांनी एकूण तीन प्रश्न सोडवणे आवश्यक आहे.

(iii) विद्यार्थ्यांनी चार प्रश्नांपैकी कोणतेही दोन प्रश्न सोडविणे आवश्यक आहे. (प्रश्न क्र.
2 ते प्रश्न क्र. 5)

1. Write short notes (All) (2.5 marks each) :

10

(a) Drafting Committee

(b) Preamble

P.T.O.

(c) Judicial Activism

(d) State List.

थोडक्यात टिपा लिहा (सर्व) (प्रत्येकी 2.5 गुण) :

(a) मसूदा समिती

(b) उद्देशपत्रिका

(c) न्यायालयीन सक्रियता

(d) राज्य सूची.

2. State the salient features of the Indian Constitution. 10

भारतीय संविधानाची प्रमुख वैशिष्ट्ये स्पष्ट करा.

3. Explain in detail the Fundamental Rights. 10

मुळभूत अधिकारांचे सविस्तर विवेचन करा.

4. Explain the powers and functions of the Indian Prime Minister. 10

भारताच्या पंतप्रधानाचे अधिकार व कार्ये स्पष्ट करा.

5. Describe Centre-State administrative relation. 10

केंद्र-राज्य प्रशासकीय संबंधाचे वर्णन करा.

This question paper contains 2 printed pages]

CA—24—2025

**FACULTY OF HUMANITIES, SCIENCE & TECHNOLOGY AND
COMMERCE & MANAGEMENT**

B.A./B.Com./B.Sc. (First Year) (Second Semester) EXAMINATION

NOVEMBER/DECEMBER, 2025

ENGLISH (Compulsory)

Paper HENGAEC-1151

(Developing Written Communication—II)

(Monday, 17-11-2025)

Time : 10.00 a.m. to 12.00 Noon

Time—2 Hours

Maximum Marks—30

N.B. :— (1) Question No. 1 is compulsory.

(2) Attempt any *two* questions from Question Nos. 2 to 5.

(3) Figures to the right indicate full marks.

1. Write short notes on : 10

(i) Run-on sentence

(ii) Outlining of an essay

(iii) Structure of a job application letter

(iv) Types of memos.

P.T.O.

This question paper contains 2 printed pages]

CA—04—2025

FACULTY OF HUMANITIES

B.A. (First Year) (Second Semester) EXAMINATION

NOVEMBER/DECEMBER, 2025

MARATHI (MIL)

Paper AECMAR-1151

(मराठी साहित्य आणि व्यावहारिक मराठी-II)

(Friday, 14-11-2025)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—30

N.B. :— (i) पहिला प्रश्न सोडविणे अनिवार्य आहे.

(ii) प्रश्न क्रमांक 2 ते 5 यापैकी कोणतेही दोन प्रश्न सोडवा.

(iii) सर्व प्रश्नांना समान गुण आहेत.

1. थोडक्यात टिपा लिहा :

10

(अ) गद्य म्हणजे काय ?

(ब) प्रवासवर्णन

(क) हायकू

(ड) जाहिरात.

P.T.O.

प्रश्न क्रमांक 2 ते 5 यापैकी कोणतेही दोन प्रश्न सोडवा.

2. 'रोमराज्य' या प्रवासवर्णनातून रोम शहराचे आलेले चित्रण लिहा. 10
3. 'हायकू' या कवितेतून आलेले शेतकरी जीवनातील संघर्षाचे स्वरूप सांगा. 10
4. बातमीलेखनाचे नियम सांगा. 10
5. 'वाटा-पळवाटा' या नाट्यांशातील घटना प्रसंगाचे वर्णन करा. 10

This question paper contains 2 printed pages]

CA—03—2025

FACULTY OF HUMANITIES

B.A./B.Sc./B.Com. (First Year) (Second Semester) EXAMINATION

NOVEMBER/DECEMBER, 2025

HINDI (MIL)

HHINMIL-1151

(साहित्य कलश और व्यावहारिक हिंदी, भाग-2)

(Friday, 14-11-2025)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—30

N.B. :— (i) पहला प्रश्न अनिवार्य है।

(ii) प्रश्न क्रमांक 2 से 5 में से किन्हीं दो प्रश्नों के उत्तर लिखिए।

(iii) सभी प्रश्नों के समान अंक हैं।

1. टिप्पणियाँ लिखिए :

10

(अ) कृषि क्षेत्र में कृत्रिम मेधा

(ब) 'वसीयतनामा' कहानी के वल्लभदास

(क) निर्मला पुतुल का सामान्य परिचय

(ड) पाठ से अनुवाद प्रणाली के उपयोग।

P.T.O.

WT

(2)

CA—03—2025

2. 'नेताजी का चश्मा' कहानी की मूल संवेदना लिखिए। 10
3. 'फर्क नहीं पड़ता' कविता का आशय लिखिए। 10
4. पाठ से वाक् प्रणाली की विशेषताएँ लिखिए। 10
5. कृत्रिम मेधा का महत्त्व समझाइए। 10

CA—03—2025

2

Total No. of Printed Pages:01

SUBJECT CODE NO- NEPGB-201-2025
FACULTY OF SCIENCE AND TECHNOLOGY
EXAMINATION WINTER 2025
B.SC (FIRST YEAR) (SEM-II)
BIOTECHNOLOGY
BIOCHEMISTRY-II

[Time: 2:00 Hours]

[Max.Marks:30]

“Please check whether you have got the right question paper.”

- N.B.
- i) Question No. 1 is compulsory.
 - ii) From remaining questions, attempt any two.
 - iii) Represent your answers with well-labelled diagrams wherever necessary.

Q.1 Write short notes on

10

1. C₂ pathway
2. Coenzyme
3. Fatty acid oxidation
4. Transamination

Q.2 Describe in detail the ETC.

10

Q.3 Describe in detail tertiary structure of proteins with example.

10

Q.4 Describe in detail biosynthesis of fatty acids.

10

Q.5 Describe de novo pathway of purine synthesis.

10

Total No. of Printed Pages:01

SUBJECT CODE NO- NEPGB-202-2025
FACULTY OF SCIENCE AND TECHNOLOGY
EXAMINATION WINTER 2025
B.SC (FIRST YEAR) (SEM-II)
BIOTECHNOLOGY
GENETICS-I

[Time: 2:00 Hours]

[Max.Marks:30]

“Please check whether you have got the right question paper.”

- N.B. 1)Question No. 1 is compulsory.
2)From remaining Questions Solve any Two Questions.

- Q.1 Write short notes on** **10**
- a) Law of Dominance
 - b) Karyotype Study
 - c) Modern Gene Concept
 - d) Transduction
- Q.2 Describe in detail multiple alleles.** **10**
- Q.3 Explain in brief structural changes in chromosomes.** **10**
- Q.4 What is mutation? Describe in detail induced mutation.** **10**
- Q.5 Define plasmid. Explain structure, types, properties, and application of plasmid.** **10**

Total No. of Printed Pages:1

SUBJECT CODE NO:- NEPG-203-2025
FACULTY OF SCIENCE & TECHNOLOGY
EXAMINATION WINTER 2025
B. SC. (FIRST YEAR) (SEM -II)
BIOTECHNOLOGY (INTEGRATED)
BASIC MATHS, STATS AND COMPUTER (SBTT-1153)

[Time: 2:00 Hours]

[Max.Marks:30]

“Please check whether you have got the right question paper.”

- N.B.
- 1) Q. No. 1 is Compulsory.
 - 2) Attempt any two questions from Q. No. 02 to Q. No. 05
 - 3) All Questions carry equal marks
 - 4) Draw a neat labelled diagram if it is necessary

Q.1 Write Short Notes on (2.5 each) 10

- a) Subset.
- b) Mode.
- c) Variance.
- d) WWW in Computer.

Q.2 10

- a) Explain types of Set.
- b) Define Set Operation with Venn Diagram.

Q.3 10

- a) Define Frequency polygon with examples.

- b) Find the Median of the following Frequency distribution.

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of Students	07	10	23	51	06	03

Q.4 10

- a) Explain Range and find the range of the marks scored by the students of class 10 are 45, 39, 55, 63,49,92 and 79.

- b) Compute standard Deviation of 9, 12, 15, 18, 21, 24, 27

Q.5 10

- a) Define Ms-Excel.
- b) Explain MS-Word.