

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

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**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

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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

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Total No. of Printed Pages:01

**SUBJECT CODE NO:-NEPGX-101-2025**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**EXAMINATION WINTER 2025**  
**B.SC (FIRST YEAR) (SEM-I)**  
**Artificial Intelligence & Machine Learning**  
**PAYTHON FUNDAMENTAL**

**[Time: 2:00 Hours]****[Max.Marks:30]**

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

N.B. I. Question paper consists of 5 question, each of 10 marks.

II .Question No. 1 is compulsory

II .Solve any two from Q. 2 to Q. 5

- Q.1 Attempt the following (2.5 Marks each) 10**
- a) Explain break & continue Python.
  - b) What is variable?
  - c) Write a symbol for creating flowchart?
  - d) Describe function in python.
- Q.2 Attempt the following question: (5 Marks each) 10**
- a) Explain Interpreter in python.
  - b) Write a program to find the number is prime or not.
- Q.3 Attempt the following question: (5 Marks each) 10**
- a) Write a program to find the number is even or odd.
  - b) Explain data type in python
- Q.4 Attempt the following question: (5 Marks each) 10**
- a) Explain Controlling statement in python.
  - b) Explain looping statement in python.
- Q.5 Attempt the following question: (5 Marks each) 10**
- a) Explain file handling operation in python.
  - b) WAP to display following pattern.  
1  
1 2  
1 2 3  
1 2 3 4

Total No. of Printed Pages:01

**SUBJECT CODE NO- NEPGX-102-2025**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**EXAMINATION WINTER 2025**  
**B.SC (FIRST YEAR) (SEM-I)**  
**AI & ML**  
**RDBMS**

[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 Q.No. 2 to 5 solve any two.
  3. Figures to the right indicate full marks.
  4. Assume suitable data, if necessary.
  5. Use of any electronic media such as mobile phone, digital diary, and electronic calculator is not permitted.

**Q.1 Attempt the following (2.5 marks each) 10**

- a) What are Triggers?
- b) Explain types of Entity Set.
- c) Explain the concept of Keys.
- d) What is SQL?

**Q.2 Attempt the following. (5 marks each) 10**

- a) Explain the concept of Explicit Cursor.
- b) Explain Mapping Cardinalities with E-R Diagram.

**Q.3 Attempt the following. (5 marks each) 10**

- a) Explain the concept of Outer Join.
- b) What is Normalization? Explain 2NF in detail.

**Q.4 Attempt the following. (5 marks each) 10**

- a) Explain the concept of Advantages of DBMS.
- b) Write a note on Natural Join.

**Q.5 Attempt the following. (5 marks each) 10**

- a) Explain Multiple Row functions.
- b) Explain Select command in detail.

Total No. of Printed Pages:02

**SUBJECT CODE NO- NEPGX-103-2025**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**EXAMINATION WINTER 2025**  
**B.SC (FIRST YEAR) (SEM-I)**  
**AI&ML**  
**DIGITAL ELECTRONICS AND COMPUTER ORGANIZATION**

[Time: 2:00 Hours]

[Max.Marks:30]

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

- N.B.
1. Question number I is compulsory.
  2. From Q.NO 2 to 5 solve any two questions.
  3. Assume suitable data whenever necessary
  4. Figures to the Right indicates Full Marks

**Q.1 Attempt the following (2 marks each)**

**10**

- a) What is Number System? Explain binary Number System.
- b) What is 2's complement? Explain with example.
- c) Explain basic gate AND.
- d) Explain gray code in detail.
- e) Explain D-Type FF.

**Q.2 Attempt of the following (5 Marks each)**

**10**

- a) Explain universal gate EX-OR and EX-NOR.
- b) Explain clocked SR FF.

**Q.3 Attempt of the following (5 Marks each)**

**10**

- a) Solve the following.
  - i) (11001-01011)
  - ii) (10001/101)
- b) Explain BCD code.

**Q.4 Attempt of the following (5 Marks each)**

**10**

- a) Explain full adder.
- b) Draw and explain 2-bit Asynchronous counter.

**Q.5 Attempt of the following (5 Marks each)****10**

- a) Draw and explain the Block diagram of computer.
- b) Explain Primary memory and its types.

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**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.

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**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.

WT

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2. “Punctuation marks are essential in writing.” Explain. 10
3. Describe the structure and essential features of report writing. 10
4. Prepare a resume for the post of Bank Manager, highlighting the key components such as contact information, career objective, education, skills, work experience, and other relevant sections. 10
5. Write a notice informing students about the Diwali vacation, including all the essential components of a notice. 10

CA—24—2025

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**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

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**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

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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

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Total No. of Printed Pages:02

**SUBJECT CODE NO- NEPGX-201-2025**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**EXAMINATION WINTER 2025**  
**B.SC (FIRST YEAR) (SEM-II)**  
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**  
**OOPS WITH JAVA**

[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 Q.Nos. 2 to 5 solve any two.
  3. Figures to the right indicate full marks.
  4. Assume suitable data, if necessary.
  5. Use of any electronic media such as mobile phone, digital diary, and electronic calculator is not permitted.

**Q.1 Attempt the following (2.5 Marks each) 10**

- a) Define Variables
- b) Explain Static members
- c) What is the use of Final keyword?
- d) Describe StringBuffer class

**Q.2 Attempt of the following (5 Marks each) 10**

- a) Explain Java Architecture in detail
- b) Describe Inheritance and its types with example

**Q.3 Attempt of the following (5 Marks each) 10**

- a) Describe Command Line arguments in detail
- b) Explain this and super keyword use with example

**Q.4 Attempt of the following (5 Marks each) 10**

- a) Write a program to demonstrate user defined exception
- b) Write a program to demonstrate use of interface

**Q.5 Attempt of the following (5 Marks each)**

- a) Describe types of Packages in detail
- b) Explain ArrayList class with example.

Total No. of Printed Pages:02

**SUBJECT CODE NO- NEPGX-202-2025**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**EXAMINATION WINTER 2025**  
**B.SC (FIRST YEAR) (SEM-II)**  
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**  
**COMPUTER NETWORK**

[Time: 2:00 Hours]

[Max.Marks:30]

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

- N.B.
- (i) Question No. I is compulsory.
  - (ii) From Q. No. 2 to Q. No. 5 solve any 2 Questions.
  - (iii) Figures to the right indicate full marks.
  - (iv) Assume suitable data, if necessary.
  - (v) Use of any electronic media such as mobile phone, digital dairy and electronic calculator is not permitted.

**Q.1 Attempt the following (2.5 marks each):** **10**

- a) Explain IOT.
- b) Explain LAN.
- c) Explain Intranet.
- d) Explain SMTP.

**Q.2 Attempt the following. (5 marks each)** **10**

- a) Explain Data transmission type.
- b) Explain Guided transmission Media.

**Q.3 Attempt the following. (5 marks each)** **10**

- a) Explain OSI reference model.
- b) Write the Difference between Wi-Fi & Wi-max?

**Q.4 Attempt the following. (5 marks each)** **10**

- a) Define network topology?
- b) Explain IP address in detail?

**Q.5 Attempt the following. (5 marks each)****10**

- a) Explain Cloud deployment model in detail.
- b) Write the Difference between IPV4 & IPV6.

Total No. of Printed Pages:02

**SUBJECT CODE NO- NEPGX-203-2025**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**EXAMINATION WINTER 2025**  
**B.Sc. (FIRST YEAR) (SEM-II)**  
**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**  
**FUNDAMENTALS OF STATISTICS (SAMLMT1152)**

[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 Q. Nos. 2 to 5 solve any two Questions.
  3. Assume suitable data, if necessary
  4. Use of any electronic media such as mobile phone, digital diary, is not permitted.
  5. Non-programmable calculator allowed.

**Q.1 Attempt the following (2.5 Marks each)****10**

- a) Write the merits and demerits of Mean.
- b) Explain Sample Space.
- c) Define Mean write its merits, demerits.
- d) Define Positive and Negative correlation.

**Q.2 Attempt of the following (5 Marks each)****10**

- a) Write scope of statistics in field of Economics.
- b) Define mode and Compute Mode from the following

Weight	No. of. Students
37	8
25	10
28	15
17	11
45	9
54	6

**Q.3 Attempt of the following (5 marks each)****10**

- a) Define correlation. Explain positive and negative correlation.
- b) Calculate the Mean from the following data:

Height	Frequency
15	7
30	9
45	13
60	10
75	7
90	3

**Q.4 Attempt of the following (5 mark each)**

**10**

- a) Define median & calculate median from the following:

Weight	No. of. Students
20-25	6
25-30	11
30-35	16
35-40	10
40-45	7
45-50	2

- b) Write scope of Statistics in computer science.

**Q.5 Attempt of the following (5 marks each)**

**10**

- a) Write a note on regression.  
 b) If A and B are not mutually exclusive events, then prove that

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$