

Instructions:

- 1) All questions are compulsory.
- 2) Mixing of sub questions are not allowed.
- 3) Write in clear, legible, writings.

Q I Answer any two of the following : - (10)

- A. Define logic gates. Explain the different types of logic gates with their symbols and truth tables.
- B. What is a multiplexer? Explain its working principle and discuss the various types with suitable diagrams.
- C. Explain the concept of RAID. Discuss the different RAID levels along with their advantages and limitations.
- D. Write a detailed short note on cache memory, highlighting its purpose, types, and importance in computer performance.

Q II Answer any two of the following : - (10)

- A. Write short notes on the different types of memory used in computer systems, with examples.
- B. What is a full adder? Explain its function and discuss the types of adders with suitable diagrams.
- C. Define counters. Explain the different types of counters (synchronous and asynchronous) with examples.
- D. State and explain De Morgan's Theorems. Illustrate with Boolean algebra examples and logic gate diagrams.

Q III Answer any two of the following : - (10)

- A. What are multiprocessor systems? Explain the different types and their advantages in computer architecture.
 - B. Explain the concept of an Input-Output (I/O) module. Describe its functions and role in communication between CPU and peripherals.
 - C. What is a Karnaugh Map (K-Map)? Explain its use in simplifying Boolean expressions with suitable examples.
 - D. Define decoders. Explain the different types of decoders with block diagrams and applications.
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- Q.1** Attempt any **TWO** (10)
- A) List and explain the functions of DBA.
 - B) What is Data Model? Explain various types of data models.
 - C) Explain the term Aggregation in EER.
 - D) Explain CREATE and DROP command with suitable example.
- Q.2** Attempt any **TWO** (10)
- A) Write a note on Cartesian product.
 - B) Explain various Math functions in MySQL.
 - C) Write a note on BCNF.
 - D) Explain COMMIT and ROLLBACK command in detail.
- Q.3** Attempt any **TWO** (10)
- A) What is key? What are the different types of keys available in DBMS explain?
 - B) Explain the terms
 - i) Stored attribute
 - ii) Derived attribute
 - iii) Key attribute
 - C) Explain Outer JOIN in detail.
 - D) Explain BACKUP and RESTORE in database.

Elementary Statistical Techniques for Economics

Instructions:

1. All questions are compulsory.
2. Mixing of sub questions is not allowed.
3. Write in clear, legible, writing.

(Note: attempt any two questions out of three)

Q.1 Answer the following question (Any 2) (15 Marks)

- a) What is variable? Write different types of variable
- b) Distinguish between primary data and secondary data and discuss the various methods of collecting primary
- c) Distinguish between (i) primary and secondary data (ii) sampling and census method.

Q.2 Answer the following question (Any 2) (15 Marks)

- a) draw **Sub-divided (Component) and MULTIPLE BAR DIAGRA Bar Diagram**

Electricity usage in a home (units)

Month	Jan	Feb	Mar	Apr	May
Lighting	30	25	40	35	40
Cooling	50	60	70	80	90
Cooking	20	15	20	25	30

- b) draw Percentage Bar Diagram

Activity	Student A	Student B	Student C
Study	50%	45%	60%
Sleep	30%	35%	25%
Play	20%	20%	15%

- c) A survey shows the favourite fruits of 100 students

Apples: 30 students

Bananas: 25 students

Oranges: 20 students

Grapes: 15 students

Others: 10 students

Question: Draw a pie chart to represent the data. What percentage of students prefer bananas?

Q.3 Answer the following question (Any 2)

(15 Marks)

a) What is data? Write different types of Data.

b) i) Draw the pictograph

Book Genre	Fiction	Non-Fiction	Mystery	Science Fiction
Books Sold	15	9	12	6

ii) draw simple bar graph Average marks of students in maths

Student	Riya	Kabir	Asha	Imran	Priya
Marks (out of 100)	78	85	91	76	88

c) In a class of 60 students, the distribution of preferred sports is:

Football: 24 students

Basketball: 18 students

Tennis: 12 students

Swimming: 6 students

Question: Create a pie chart showing this data. What is the central angle for Basketball?

Cyber PsychologyInstructions:

- 1) All questions are compulsory.
- 2) Mixing of sub questions is not allowed.
- 3) Write in clear, legible, writing.

Q1) Fill in the blanks :

(10)

1. Which of the following is a major advantage of in-person relationships compared to cyberspace relationships?
 - A. Instant messaging
 - B. Physical presence and non-verbal communication.
 - C. Anonymity
 - D. Easier access to people from other countries
2. What is the first step in resolving an online conflict?
 - A. Report the user immediately
 - B. Block the person involved
 - C. Understand the issue from both sides.
 - D. Post a public response
3. A key risk in immersive research is losing the line between research and _____ involvement.
4. Which of the following is a key component of digital identity?
 - A. Passport photo
 - B. IP address
 - C. Username and password.
 - D. Driver's license
5. Which personality type is most likely to seek online forums for social interaction?
 - A. Extrovert
 - B. Introvert.
 - C. Narcissist
 - D. Type A
6. One of the most common platforms for cyberspace romance is _____ apps or social media.
7. If your online partner becomes controlling or manipulative, you should:
 - A. Try harder to please them
 - B. Assume they just care deeply
 - C. Set clear boundaries or end the relationship.
 - D. Keep it going to avoid hurting them
8. Online text relationships are primarily built through _____ communication rather than face-to-face interaction.
9. In online settings, participant observation often takes place in _____ communities like forums or chat groups.

10. Which of the following is a recommended strategy for managing online disagreements?

- A. Using sarcasm to make a point
- B. Responding immediately while emotional
- C. Taking time to cool off before responding.
- D. Escalating the conflict to others

Q2) Essay Type Questions (Attempt Any One out of two): (10)

- A) Healthy and Pathological Internet Use; Gender Switching in Cyberspace
- B) Identity Management in Cyberspace

Q3) Short Notes/Problem (Attempt Any Two out of Four): (10)

- A) Write In-person versus Cyberspace Relationships
 - B) Write a note on "The Psychology of Text Hypotheses about Online Text Relationships"
 - C) Explain the concept of psychology of text relationships
 - D) Explain Participant Observation Research; Steps in Studying an Online Group
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STRESS MANAGEMENT

Instructions:

- 1) All questions are **compulsory**.
 - 2) Mixing of sub questions is not allowed.
 - 3) Write in clear, legible, writing.
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- Q1) Attempt any two: (15)
- A) Who are some key pioneers in the study of stress, and what were their major contributions?
 - B) Explain the roles of the autonomic nervous system in stress management?
 - C) How does stress impact the immune system?
 - D) What is eustress, and how does it differ from distress?

- Q2) Attempt any two: (15)
- A) How does nutrition influence stress levels and overall health?
 - B) Why is assertiveness an important skill in managing stress?
 - C) How does a strong social support network contribute to stress relief?
 - D) Explain how imagery can be utilized for stress reduction?

First Year Information Technology (FYIT)

First Year Computer Science (FYCS)

End of First Semester Examination October 2025

Duration: 1 hr

AEC – Introduction to Communication skills

Marks : 30

Q.1. Short notes (2 out of 4)

10 marks

1. List three key features of effective written communication and explain their significance.
2. What elements make up a well-structured speech?
3. Describe the role of active listening in effective communication. Why is it important?
4. How can understanding your audience enhance the effectiveness of your speech or presentation?

Q.2. A. Unseen Passage (200-250 words)

06 marks

Social media has dramatically transformed the way people communicate and interact. Platforms like Facebook, Twitter, and Instagram enable users to connect with friends, family, and even strangers across the globe instantaneously. This connectivity fosters a sense of community and allows individuals to share ideas, experiences, and information in real-time.

However, the rise of social media also presents challenges. The rapid exchange of information can lead to the spread of misinformation and polarizing opinions. Additionally, the prevalence of online communication may diminish face-to-face interactions, impacting interpersonal skills. Some studies suggest that excessive social media use can contribute to feelings of loneliness and anxiety, as users may compare their lives to the curated images of others.

Despite these challenges, social media can be a powerful tool for activism and social change. Movements like #MeToo and Black Lives Matter have gained momentum through online platforms, mobilizing people for a cause and raising awareness of critical social issues. As society continues to navigate the complexities of social media, finding a balance between its benefits and drawbacks will be essential for fostering healthy communication.

- A. Answer the following question from the given passage above in 30 words.**
1. How has social media changed the way people communicate?
 2. What are two challenges associated with social media usage?
 3. Provide an example of how social media can be used for activism.
 - 4.

B. Questions on grammar

04 marks

1. "She loves to travel during the summer" (Transform this statement into a question)
2. Provide a synonym and an antonym for the word "difficult."

3. "I almost drove my kids to school every day." (Rewrite the following sentence to eliminate the misplaced modifier)

4. Which of the following sentences is correct?

- a) Each of the players are skilled.
- b) Each of the players is skilled.

Q. 3. Writing Skills (1 out of 2)

10 marks

1. Write an application letter in response to the following advertisement :

"Wanted an English teacher to teach for IXth and Xth Standards. Candidates must have passed B.A., B.Ed. Must be ready to work in villages. Write giving details to: The Chairman, Modern Education Society, Mumbai. Apply with bio-data.

2. Describe the key differences between bar charts and line graphs. In what scenarios would each type be most effectively used? Provide an example for each.

Max Time: 1 hrs

FY IT/CS Semester I

Max Marks: 30

Environmental Management & Sustainable Development -I

Instructions:

1. All questions are compulsory.
 2. Mixing of sub questions is not allowed.
 3. Write in clear, legible, writing.
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Attempt any three questions.

(30marks)

1. (a) Write any five different biogeographic zones of India. **(5 marks)**
(b) What is biodiversity and state levels of biodiversity? **(5 marks)**
2. (a) What are natural resources? Give the difference between biotic and abiotic resources. **(5 marks)**
(b) State any 10 different SDG's . **(5 marks)**
3. Write any one of Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan. **(10 marks)**
4. (a) State: How different sectors cause pollution? **(5 marks)**
(b) Write a short note on climate change. **(5 marks)**

FY. BA/B.Sc/B.Com

Reg. / ATKT

Sem - I

RIZVI COLLEGE OF ARTS, SCIENCE AND COMMERCE

16/10/2025

SUB: INDIAN KNOWLEDGE SYSTEM (IKS) 2025-2026

SEM I

30 MARKS

1 HOUR

ALL QUESTION ARE COMPULSORY

Q1. Attempt any TWO question

(6 marks)

1. Define the Indian Knowledge System and list its characteristic features.
2. Explain Macaulay's Education Policy highlighting its positive aspects.
3. Why should the Indian Knowledge System and ancient traditions be revisited?
4. Discuss the education systems of Madarasa in the Indian context.
5. Define IKS and describe its contributions to the development of modern science.

Q2. Attempt any THREE question

(12 marks)

1. Discuss the diagnostic techniques of Ayurveda.
2. Explain the importance of Alchemy.
3. Write about the Logic and it's usefulness in India.
4. Elucidate the Arthashastra and its contribution in governance.
5. Discuss the limitation of logic.
6. Discuss the drugs in disease management.

Q3. Attempt any THREE question

(12 marks)

1. Explain aesthetics and it's different art forms.
2. Describe the architecture of ancient India.
3. Discuss the importance of Yoga as part of IKS
4. Explain the problems of banking systems in India.
5. Describe the strategic studies and six sports in ancient Indian knowledge.
6. Discuss the emerging trends in banking.

F4BCom / BA

251017

NA 2/25

DLLE (Department of Lifelong Learning and Extension)

Semester I

Time: 1 hour

Total Marks: 30

1. Rewrite the following statement by choosing correct alternative given in the bracket.

6 marks

- i) Elderline is a national helpline in India that provides support to
(Minor Citizen / Senior Citizen)
- ii) Honest is an example of..... (Ethical value / Physical Activity)
- iii) Recycling can help (reduce pollution / increase pollution)
- iv) is non-biodegradable. (plastic / paper)
- v) Pride marches are held to celebrate (LGBT community / food festival)
- iv) Personal values influence..... (our decisions / traffic rules)

2. Write short notes on any two of the following.

6 marks

- i) Examine the role of values in shaping an individual's behavior.
- ii) Examine the steps that society can implement to protect senior citizens.
- iii) Define air pollution as a severe type of pollution.
- iv) Significance of the Stonewall act 1969 for LGBTQIA+.

3. Answer in detail on any three of the following.

18 marks

- i) Explain the role of the Government of India in the welfare of senior citizens.
- ii) Define Soil Pollution with its effects on the environment.
- iii) Define LGBTQIA+ and its awareness through social media.
- iv) Explain ethics and values. Highlight their importance in individual and social life.
- v) Discuss measures to control and reduce environmental pollution.

External examination

Subject-NSS SEM1

Marks30

TIME-1 HOUR

Q1. Rewrite the following by choosing the correct options given below
(6 marks)

1. Which of the following is a core component of NSS?

- a) Teachers
- b) Engineers
- c) Business leaders

2. What is the main objective of the National Service Scheme (NSS)?

- a) Academic excellence through exams
- b) Development of the personality of students through community service
- c) Financial Analysis using software

3. Which value is not explicitly promoted by the NSS?

- a) Discipline
- b) Dignity of labour
- c) Material wealth

4. The NSS emphasizes the cultivation of which attribute among students?

- a) Academic excellence
- b) Entrepreneurial skills
- c) Social consciousness

5. What did the First Five-Year Plan (1952) emphasize for students?

- a) Military training

b) One year of social work

c) Higher education

6. The NSS emphasizes the importance of which group in driving positive societal change?

a) Senior citizens

b) Government officials

c) Youth

Q2. Write Short Notes (Any 2 out of 4)

(6 marks)

1. Utkarsh Festival

2. Objectives of NSS

3. Emblem of NSS

4. Formation of NSS unit

Q3. Answer the following (Any 3 out of 5)

(18 marks)

1. Explain any 6 basic qualities of an NSS volunteer.

2. Discuss the role of NSS in disaster management with suitable examples.

3. Explain the role of Mahatma Gandhi's philosophy in shaping the objectives and activities of NSS.

4. Which activities you can perform at the College level? Explain.

5. What is the importance of environment activities under NSS.?

Co-Curricular Course: Introduction to Cultural Activities

Sem-I Oct12025

N.B: (1) All the questions are compulsory.
(2) Each question indicates full marks to the right.
Total Marks: 30 Duration: 1 Hour

Q.1 Fill in the blanks with the appropriate answer. 06Marks

- _____ is a performing art. (Elocution/Dance/Story writing/Installation)
- _____ is an important form of visual art. (Lip Trills/Painting/Debate/Essay)
- The _____ Veda is considered the originator of music. (Sama/Rig/Yajur/Atharva)
- The folk dance of Garba is predominantly associated with _____ state in India.
(Gujarat/Maharashtra/Bihar/Rajasthan)
- Spot photography is the form of _____ art.
(Performing/Fine/Literary/Active)
- _____ is the form of literary art. (Music/Dance/Painting/Debate)

Q.2 Attempt any two from the following questions. (03 Marks each)

- Write a note on manifestation of culture.
- Give an overview of Indian cultural practices.
- How cultural activities help in preserving heritage?
- What are some notable cultural practices from around the world?

Q.3 Attempt any two from the following questions. (03 Marks each)

- How do cultural activities contribute to personal and academic development?
- Write a short note on historic revolution of student cultural activities in India.
- "The Association of Indian Universities plays a significant role in preserving and promoting Indian cultural heritage." Discuss briefly.
- What is the historical background of students' cultural activities in Maharashtra?

Q.4 Attempt any two from the following questions. (03 Marks each)

- Brief out the different categories of literary arts.
- Describe in short the various forms of fine arts.
- Share the information on some of the famous literary artists in the world.
- Mention some of the fine arts personalities around the world.

Q.5 Attempt any two from the following questions. (03 Marks each)

- Explain various forms of dance.
 - Briefly discuss the types of theatre.
 - What are the different categories of music?
 - Write about the famous personality from any of the performing arts.
-

FYBA | Blom

251017

NC2125

FIRST YEAR SEMESTER I NEP EXAMINATION

Subject: Introduction to Sports, Physical Literacy, Health & Fitness and Yoga

Maximum Marks: 30

| Duration: 1 hr

Roll Number: _____ Sup Sign: _____

Class & Division: _____

Instruction:

- For MCQs, tick/mark the correct option in the paper.
- For True/False, write "True" or "False" in the box given.
- For Match the Column, draw arrows from Column A to Column B.

A. Multiple Choice Questions (Any 10 out of 12)

(10)

1. Sports are activities played with:
a) No rules b) Strict rules only for professionals c) Rules and skills d) Only for fun
2. Which organization defines sports as activities improving fitness and social life?
a) WHO b) IOC c) AIU d) BCCI
3. Which of the following is a team sport?
a) Table Tennis b) Badminton c) Volleyball d) Chess
4. One main aim of sports is:
a) Increase stress b) Promote teamwork c) Avoid competition d) Reduce stamina
5. The ability to do daily work without fatigue is called:
a) Health b) Fitness c) Yoga d) Literacy
6. Who launched Khelo India Programme?
a) Rajyavardhan Singh Rathore b) P.V. Sindhu c) Dhyan Chand d) Narendra Modi
7. Khelo India Youth Games are for which age groups?
a) Under 12 b) Under 14 c) Under 17 & Under 21 d) Above 25

8. The national sport of India is:
a) Cricket b) Hockey c) Kabaddi d) Football
9. Which athlete is called the "Lightning Bolt"?
a) Carl Lewis b) Usain Bolt c) Michael Phelps d) Tyson Gay
10. P.V. Sindhu is associated with which sport?
a) Badminton b) Tennis c) Boxing d) Wrestling
11. How many players are there in a standard football team (on field)?
a) 9 b) 10 c) 11 d) 12
12. Who is known as the "God of Cricket" in India?
a) Virat Kohli b) MS Dhoni c) Sachin Tendulkar d) Rohit Sharma

B. True / False (1 mark each × 10 = 10 marks)

(10)

1. Sports are played without any rules. []
2. Physical literacy means confidence and motivation to be active. []
3. Fitness means ability to work daily without fatigue. []
4. Health means only absence of disease. []
5. Yoga includes postures, breathing, and meditation. []
6. Khelo India Youth Games are for under-17 and under-21 athletes. []
7. Arjuna Award is given to coaches. []
8. Sports federations make rules and organize competitions. []
9. Cricket is played with 9 players in each team. []
10. Hockey World Cup is played every 4 years. []

C. Match the Column (1 mark each × 10)

(10)

1

Column A	Column B
1. Aim of Sports	a) Less stress
2. Benefit of Fitness	b) Focus & flexibility
3. Importance of Yoga	c) Prevent lifestyle diseases
4. Health Objective	d) Community bonding
5. Social Benefit	e) Teamwork & discipline

2

Column A	Column B
1. Sachin Tendulkar	a) Flying Sikh
2. Milkha Singh	b) Olympic Gold Shooting
3. Abhinav Bindra	c) Chess Grandmaster.
4. Mary Kom	d) Master Blaster
5. Viswanathan Anand	e) Boxing World Champion