

Instructions:

- 1) All questions are **compulsory**.
 - 2) Mixing of sub questions are not allowed.
 - 3) Write in clear, legible, writings.
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Q I Attempt any two :- (10)

- A. What are the different multiprocessor systems. Explain in brief.
- B. Explain the Input output module in brief.
- C. Explain the Karnaugh Map in brief.
- D. What is Decoders. Explain the different types of it.

Q II Attempt any two :- (10)

- A. What do you mean by Logic gates. Explain the different types of it.
- B. What is multiplexers. Explain the different types of it in brief.
- C. What is Redundant Array of Inexpensive drive. Describe in short.
- D. Write a short note on cache memory.

Q III Attempt any two :- (10)

- A) Explain the De-morgans theorem in brief.
- B) Write a short notes on different types of memory.
- C) What is full adder. Explain its each types in short.
- D) Write a description on counters. Explain the different types of it in brief.

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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) Attempt any Four questions out of Five.
- 2) All questions are compulsory.
- 3) Mixing of sub questions is not allowed.
- 4) Write in clear, legible, writing.

Q1) Attempt any two: (15)

- A) Explain the scope and limitation of statistic.
- B) Explain the different methods of Collection of primary data.
- C) Explain what is variable and different types of variables.

Q2) Attempt any two: (15)

- A) Write a short note on Bar Graph.

Draw multiple bar chart to represent the import and export of India (values in rupees) For the year 1991 to 1996.

years	1991	1992	1993	1994	1995	1996
import	7930	8850	9780	11720	12150	13052
export	4260	5225	6150	7340	8145	9100

- B) Write a short Note on Pie Diagram.

Draw a pie chart representing the time spent on Sleeping (35%), Working (30%), Eating (10%), Commuting (10%), and Leisure (15%).

- C) Write a short note on Pictogram.

Draw a pictogram showing the number of books sold by Author A (500), Author B (450), Author C (400), and Author D (350).

Q3) Attempt any two: (15)

- A) The heights (in cm) of 50 students are recorded as follows

150, 155, 160, 165, 170, 155, 160, 165, 170, 150, 155, 160, 165, 170, 150, 155, 160, 165, 170, 155, 160, 165, 170, 150, 155, 160, 165, 170, 155, 160, 165, 170, 150, 155, 160, 165, 170, 150, 155, 160, 165, 170, 155, 160, 165.

Create a frequency distribution table and then draw a histogram.

- B) Write a short note on frequency polygon.

The marks obtained by 50 students in a science test out of 100

45, 67, 82, 90, 54, 73, 64, 85, 79, 68, 91, 76, 88, 56, 69, 73, 84, 92, 66, 71, 82, 75, 63, 77, 89, 85, 74, 58, 72, 81, 65, 87, 93, 61, 70, 84, 91, 78, 66, 83, 69, 76, 86, 62, 75, 68, 79, 90, 82, 71.

Create a frequency distribution table and draw a frequency polygon for this data.

C) Write a short note on Ogive graph.

Below is the frequency distribution table of marks obtained by students in a mathematics test out of 100.

Marks Range	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Marks Range	2	3	5	6	8	10	7	6	2	1

Draw and ogive graph for the given data.

Q4) Attempt any two:

(15)

A) Find mean, median and mode for the following data

class interval	0 - 20	20-40	40-60	60-80	80-100
frequency	23	37	50	24	16

B) The sum of highest and lowest values in a group of observations is 40. the coefficient of range is 0.2. find the highest and lowest values in the group

C) Determine the standard deviation and coefficient of variation of the marks.

Daily wages	300-400	400-500	500-600	600-700	700-800	800-900
No of worker	7	13	21	15	8	5

Q5) Attempt any three:

(15)

A) Define : (a) Population (b) Sample (c) Statistic
(d) Continuous data (e) Discrete data.

B) Draw a line graph depicting the stock prices of Company X from Monday (\$100), Tuesday (\$105), Wednesday (\$110), Thursday (\$108), Friday (\$112), Saturday (\$115), and Sunday (\$118).

C) The ages of 40 employees in a company are recorded as follows:

25, 32, 27, 35, 29, 40, 33, 28, 26, 38, 34, 31, 30, 36, 29, 27, 32, 28, 30, 35, 26, 29, 40, 31, 33, 28, 36, 30, 27, 35, 29, 34, 30, 28, 33, 37, 39, 32, 30, 31.

Create a frequency distribution table.

D) Calculate the range and the coefficient of range.

i) The following are the temperatures recorded (in degrees Celsius) over a week:

22 30 25 35 28 31 20 40 29

ii) The following are the heights (in cm) of a group of athletes:

165 180 175 160 170 190 185 155 200

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) Define "stressor" and give three examples of common stressors.
- B) What are "hot reactors," and how do they physiologically respond to stress?
- C) Describe holistic approaches to comprehensive stress management?
- D) Discuss the effects of environmental noise on stress and potential coping strategies?

Q2) Attempt any two: (15)

- A) How can improving communication skills help reduce stress in relationships?
- B) What are the key benefits of meditation for stress management?
- C) How does autogenic training work to promote relaxation?
- D) How can biofeedback be used to help individuals manage stress levels?

Max Time: 1 hr FYBSc-IT (Fundamentals of Telecommunications) Marks: 30

Instructions:

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

Q I Attempt any two out of following (15 Marks) :-

- A) Explain the 5G in Asia.
- B) Write a short note on backhaul.
- C) What are the basic signal properties. Explain in brief.
- D) Explain the concept of WIFI.

Q II Attempt any two out of following (15 Marks) :-

- A) What do you mean by internet of things. Describe in short .
- B) Write a short note on signal transformation.
- C) Write in detail about evolution of LTE Technology.
- D) What is quality of service control.

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Introduction to Communication Skills**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) Short notes Attempt any two**(10)**

- A) Explain the concept of verbal and non-verbal communication?
- B) Few points about cross-cultural communication?
- C) Write the 7C's of effective communication?
- D) Write the characteristics of an effective speech?

Q2.a) Read the following passage and write a summary based your understanding of it**(06)**

Technology has revolutionized the way we communicate, making it faster and more convenient than ever. With the advent of social media, instant messaging, and video conferencing, people can connect across the globe in real time. However, this shift brings both opportunities and challenges for effective communication. One of the key advantages of technology is the ability to share information quickly. Updates can be disseminated instantly, allowing for timely responses to events. However, the rapid pace can sometimes lead to misunderstandings. Tone and intent can easily be misinterpreted in written communication, making clarity more crucial than ever. Additionally, while technology facilitates connectivity, it can also create barriers to deep, meaningful conversations. The prevalence of digital interactions may lead to a decline in face-to-face communication skills, as individuals become accustomed to short, text-based exchanges. This can hinder the development of empathy and emotional intelligence, which are vital for building strong relationships. To navigate this landscape effectively, it is essential to strike a balance between digital and personal communication. Utilizing video calls can help preserve some non-verbal elements, while being intentional about face-to-face interactions fosters deeper connections. By leveraging technology thoughtfully, we can enhance our communication rather than let it diminish the quality of our interactions.

) Do as directed

(04)

- a) She reads every night (Name the tenses)
- b) She has visited her aunt (change into a passive voice)
- c) We are fine (Add question tag)
- d) Write Antonyms of following
 - a) Base b) Gather

Q3) Answer any one of the following

(10)

- A) Draft a letter of application with biodata for the post of a data analyst at idea media
- B) Draft a letter of application with curriculum vitae for the post of a company Secretary at fair cosmetic company private limited use the complete block layout

Laws Related to IPR

Instructions:

- 1) All questions are compulsory.
 - 2) Mixing of sub questions are **not allowed**.
 - 3) Write clear and legible writing.
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- Q.1 Attempt any TWO (10)
- A) What is Property? What are its types?
 - B) Write a short note on IPAB.
 - C) Explain the role and values of IP in international commerce.
 - D) Write a note on National IPR agency.
- Q.2 Attempt any TWO (10)
- A) Explain Selection and Evaluation of trademark.
 - B) What is trademark infringement? What are its types?
 - C) Write a short note on Geographical Indicators.
 - D) What is Patent? Explain its types.
- Q.3 Attempt any TWO (10)
- A) Explain the Berne Convention 1886 in detail.
 - B) Comment on WIPO.
 - C) Explain Patent Act of India.
 - D) Elaborate on Trademark Act of India.

Indian Knowledge System**Instructions:**

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

Q1) Attempt Any TWO Questions out of FIVE. (6)

- A) What is IKS? State the characteristics of Indian Knowledge System?
- B) Explain the Macaulay's Education Policy and its impact?
- C) Explain the need of revisiting Ancient Indian Tradition?
- D) What kind of water storage and distribution systems can be witnessed at Kanheri caves located in Mumbai?
- E) Explain in detail the Ancient Education System?

Q2) Attempt Any THREE Questions out of SIX (12)

- A) How do the concepts of "tridosha" (Vata, Pitta, Kapha) in Ayurveda relate to the broader IKS understanding of elemental principles?
- B) How does the Arthashastra contribute to the understanding of diplomacy and statecraft in ancient India?
- C) What were the major breakthroughs in algebra, trigonometry, and calculus made by Indian mathematicians?
- D) What is Ayurveda? State its branches.
- E) Discuss the application of alchemy with modern context.
- F) What are the three primary doshas in Ayurveda?

Q3) Attempt any THREE Questions out of SIX. (12)

- A) What are the primary ancient texts discussed in the context of town planning governance in India?
- B) Write a note on the Aesthetics.
- C) What were the primary taxation systems prevalent in ancient India, and how do they compare to modern taxation principles?
- D) How has the concept of 'play' transformed over time in Indian society?
- E) How has Chitra-sutra contribute to the development of a unique Indian aesthetic in the global art scene?
- F) What were the major trade goods of ancient India?

FIRST YEAR SEMESTER I NEP 2020 EXAMINATION NOVEMBER 2024

Subject: INTRODUCTION TO SPORTS, PHYSICAL LITERACY, HEALTH AND FITNESS AND YOGA

Duration: 1 Hr.

Marks: 30

SPORTS

Note: Attempt all questions

Q1. Multiple choice questions. (Any 6 out of 8) (06)

1. Deepa Karmarkar is an International player in which sport?
a. Boxing b. Gymnast c. Cricket d. Fencing
2. Which of the following is an International player of Wrestling?
a. Geeta Phogat b. Saina Nehwal c. Mary Kom d. Jemimah Rodrigues
3. Which term refers to the overall state of well-being that includes physical, mental and social health?
a. Fitness b. Health c. Exercise d. Wellness
4. Which type of yogic practice focuses on controlling the breath?
a. Asana b. Pranayama c. Meditation d. Bandha
5. Which Famous cricketer is also known as the wall of Indian cricket?
a. Sachin Tendulkar b. Rahul Dravid c. Rohit Sharma d. Virat Kohli
6. What does the term Yoga Mean?
a. Relaxation b. Meditation c. Unite d. Exercise
7. Captain of Indian Cricket Team in T-20 format?
a. Rohit Sharma b. Suryakumar Yadav c. Rishabh Pant d. Yashashvi Jaiswal

Q2. Attempt any 2 questions. (06)

- A. What is Physical Literacy? And why it is important for a healthy lifestyle?
- B. What are the latest trends in health and fitness?
- C. Write a Note on importance of Yoga?

Q3. Attempt any 2 questions. (06)

- A. Outline the fundamental principles of fitness train and yoga?
- B. Importance of Major Dhyan Chand Khel Ratna Award in sport?
- C. Importance of Mental Health awareness?

Q4. Attempt any 2 questions. (06)

- A. Discuss some of the Major sports awards in India?
- B. Importance of Physical Fitness in your life?
- C. Discuss the importance of sports in your life?

Q5. Attempt any 2 questions. (06)

- A. What are the benefits of meditation in our lives?
- B. State some of the Olympic players of India with their game.
- C. Mention some of the opportunities in Sports?

Time: 1 Hour

FYBA/BCom/Self Finance Courses

Semester I

Marks: 30

Introduction To Cultural Activities

Instructions:

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

Q.1) Attempt Following Six Multiple- Choice Questions:

(6)

1. Which state is Kathakali a classical dance form from?
 - a. Kerala
 - b. Karnataka
 - c. Andhra Pradesh
 - d. West Bengal
2. Which of the following is folk dance from Gujarat?
 - a. Kathak
 - b. Bharatnatyam
 - c. Garba
 - d. Kuchipudi
3. Which is the oldest Veda?
 - a. Samveda
 - b. Rigveda
 - c. Yajurveda
 - d. Atharvveda
4. Which of the following is an Indian classical music?
 - a. Ghazal
 - b. Qawwali
 - c. Hindustani
 - d. Bhajan

P.T.O

5. Hindustani music is primarily associated with:

- a. Northern India
- b. Southern India
- c. Western India
- d. Eastern India

6. Which state is known for the folk dance Bhangara?

- a. Maharashtra
- b. Punjab
- c. Gujarat
- d. Rajasthan

Q.2) Attempt Following:

(6)

- a. How do cultural activities help in preserving a community's heritage?
- b. How do cultural activities play a crucial role in student life?

Q.3) Attempt Following:

(6)

- a. Describe about the history of student cultural activities in India?
- b. How does cultural activities play a significant role in education?

Q.4) Attempt Following:

(6)

- a. Describe the Importance of presentation and relevance in Story Writing?
- b. Describe the process of Poster Making?

Q.5) Attempt Following:

(6)

- a. Discuss about the Classical Dance?
- b. Describe the different types of Indian Music?

NSS (National Service Scheme)**Instructions:**

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

Q1) Choose the correct alternative:**(6)**

1. _____ is a key component of the NSS's philosophy
 - A. Economic Development
 - B. Military Training
 - C. Social Responsibility
 - D. Industrial Growth

2. The 'Rath' wheel in the NSS emblem symbolizes:
 - A. The cycle of creation
 - B. A fixed point in time
 - C. Static progress
 - D. Academic achievements

3. Who is responsible for advising the Ministry on the development of the NSS programme?
 - A. Programme Coordinator
 - B. State Liaison Officer
 - C. Programme Adviser
 - D. Regional Centre Head

4. Who is responsible for appointing the NSS Programme Officer at the institution level?
 - A. NSS Regional Centre
 - B. State Liaison Officer
 - C. College Principal
 - D. Programme Coordinator

5. How many hours of community work are NSS volunteers expected to complete in an academic year?
 - A. 80 hours
 - B. 120 hours
 - C. 100 hours
 - D. 150 hours

6. Which of the following is a key focus area of NSS activities in slum areas?
 - A. Luxury housing development
 - B. Financial literacy
 - C. Organizing fashion shows
 - D. Building shopping malls

Q2) Short Notes:- (Any two):

(6)

1. Philosophy of NSS
2. Republic day parade camp
3. Motto of NSS
4. NSS Residential Camp

Q3) Answer the following:- (Any Three)

(18)

1. Explain functions of state NSS cell (any 6)
2. Explain the procedure of Formation of NSS Unit at the college
3. What are the objectives of Regular Activities of NSS?
4. What is the role of NSS volunteers in National Development?
5. What are the Activities to be conducted in adopted village related to Gender Equality?

D L L E

Extension Work

Marks: 30

Semester I Examination

Time: 1 Hour

Q1. Rewrite the following statements by choosing the correct alternatives given below.

(06 Marks)

1. Pollutants that cannot be broken down into simpler, harmless substances in nature are called _____ pollutants. (biodegradable/ non-biodegradable/ beneficial)
2. It is predicted that by 2031, number of senior females will _____ number of senior males. (be same as/ be less than/ exceed)
3. Ethics and values help in communal _____ violence. (avoiding/ strengthening/ supporting)
4. Stigma and _____ affect the mental health and well-being of LGBTQIA+ youth. (discrimination/ inclusion/passion)
5. Unintentional poisoning arises from excessive exposure to _____. (fragrances/ chemicals/ sun)
6. Industrial effluents contribute to _____ Pollution. (Air/ Water/Soil)

Q2. Write short notes on any TWO of the following.

(06 Marks)

1. Role of ethics in personal fulfilment.
2. Rapid Industrialisation as a cause of pollution.
3. Difference in the status of senior citizens in last 30 years.
4. Impact of World War 2 on LGBTQIA+ movement.

Q3. Answer any THREE of the following questions.

(06x3=18 Marks)

1. What is the importance of Ethics in our professional life?
2. Describe three steps India can take to get ready for its aging population.
3. Explain any three types of environmental pollution.
4. What do you understand by the concept of Inclusion in LGBTQIA+ studies?
5. Write in detail about climate change.