

INSTITUTE OF SCIENCE & TECHNOLOGY, MANAGEMENT

ASSIGNMENT QUESTION FOR ODD SEM 2025

BCA-1ST SEM - THEORY

PAPER NAME: GENERAL ENGLISH

PAPER CODE: AEC101

1. What is expository writing? what are types of expository writing?
2. Give the proper definition of DEBATE. What are the advantages of Debate?
3. Write the proper and correct formation and examples of Present perfect continuous tense, Future perfect tense and Simple past tense.
4. Tense change:-
 - i.Suman is drafting an application.(change into past perfect continuous tense)
 - ii. Does Ram write a paragraph? (change into past indefinite tense)
 - iii. She was singing a patriotic song.(change into present perfect tense)
 - iv. We will buy a camera from the market. (change into future perfect tense)
 - v.Have you put it in the jar?(change into present continuous tense)
5. What is Biography and Autobiography? Write the differences between Biography and Autobiography?

PAPER NAME: MATHEMATICS FOUNDATION TO COMPUTER SCIENCE- I

PAPER CODE: CC101

1. Given a function $f:X \rightarrow Y$, determine if it is invertible. If it is, find the rule for the inverse function f^{-1} and verify that $(f^{-1} \circ f)(x) = x$.
2. Let $A = \{1, 2, 3, 4\}$. A relation R on set A is defined as $R = \{(a, b) | a \text{ divides } b\}$.
3. (i) Write the relation matrix of R .
(ii) Test whether the relation is reflexive, symmetric and transitive.
(iii) Determine whether R is an equivalence relation.
4. Let the functions f and g be defined as: $f(x) = 2x + 3, g(x) = x^2 - 1$
(i) Find $(f \circ g)(x)$ and $(g \circ f)(x)$.
(ii) Determine whether f is one-to-one and onto.
5. A graph has 8 vertices with the following degree sequence: $(2, 4, 4, 2, 2, 4, 2, 2)$
(i) Verify whether the given graph is Eulerian, Semi-Eulerian, or Non-Eulerian.
(ii) Justify your answer using Euler's theorem.
6. Using the Binomial Theorem, find the constant term in the expansion of $\left(x^2 + \frac{1}{x}\right)^9$.

PAPER NAME: COMPUTER ARCHITECTURE

PAPER CODE: CC102

1. Simplify the Boolean expression using K-Map:
$$F(A, B, C) = \sum m(1, 3, 5, 7)$$

Draw the K-map and write the simplified SOP expression.
2. Convert the decimal number 125.625 into:
 - a) Binary

- b) Octal
- c) Hexadecimal

3. Explain RISC vs CISC architecture with 3 differences and draw a simple diagram showing pipeline stages of RISC.
4. Draw the timing diagram for a JK Flip-Flop when J=1, K=1 and the clock has 5 pulses. Explain the output transitions.
5. Design a **4:1 Multiplexer** to implement the function:

$$F(A,B,C) = \sum m(0,2,3,5)$$

PAPER NAME: COMPUTER ARCHITECTURE
PAPER CODE: SEC101

1. Define an algorithm. Explain the characteristics of a good algorithm with suitable examples.
2. Explain entry-controlled and exit-controlled loops in C with syntax and one example of each.
3. Write an algorithm / C program to check whether a given number is an Armstrong number. Explain the logic briefly.
4. Explain the binary search algorithm with an example. Write its C function and state its time complexity.
5. Define recursion. Write a recursive C function to find factorial of a number and explain how the function calls itself.

PAPER NAME: ENVIRONMENTAL SCIENCE AND SUSTAINABILITY
PAPER CODE: VAC101

1. Write about the components and segments of Environment.
2. Write a short note on sustainable management of forest and water conservation.
3. Describe the types of Ecosystem.
4. Write the difference between in-situ and ex-situ conservation.
5. How many biodiversity country in the world? Why India is considered as a Mega biodiversity country?

BCA-1ST SEM- PRACTICAL
PAPER NAME: DIGITAL ELECTRONICS LAB
PAPER CODE: BCAC191

1. Realization of basic gates using Universal logic gates.
2. Construction of simple Decoder and Multiplexer circuits using logic gates.
3. Design of combinational circuit for BCD to decimal conversion to drive 7- segment display using multiplexer.
4. Construction of simple arithmetic Circuits-Adder, Subtractor.
5. Realization of RS-JK and D flip-flops using Universal logic gates.

PAPER NAME:PROGRAMMING FOR PROBLEM SOLVING LAB
PAPER CODE: BCAC192

1. Write a C program to input two integers and output their sum, difference, product, and quotient.
2. Write a C program to find the largest of three numbers using if-else statements.
3. Write a C program to check whether a given number is even or odd using a conditional statement.
4. Write a C program that uses a for loop to print the first 10 numbers of the Fibonacci sequence.
5. Write a C program that converts a given number from decimal to binary.

BBA(HM)-1ST SEM - THEORY

PAPER NAME: HOSPITAL OPERATIONS MANAGEMENT & PLANNING
PAPER CODE: BBA (HM) 101

1. Define Hospital Operations Planning. Explain its objectives and significance in hospital management.
2. Discuss the different types of hospitals (ownership, service, and size-wise classification)
3. Discuss the importance and planning of Outpatient Department (OPD) in hospital operations.
4. Write short notes on Emergency Department planning and its role in hospital operations.
5. Explain the planning and workflow of Operation Theatres (OTs) in a modern hospital.

PAPER NAME: ACCOUNTS
PAPER CODE: BBA (HM) 102

1. What are the basic accounting concepts and conventions? Explain with examples.
2. Pass journal entries for the following transactions:
 - a. Started business with cash Rs. 50,000
 - b. Purchased goods for cash Rs. 20,000
 - c. Sold goods for cash Rs. 15,000
 - d. Paid rent Rs. 2,000

From the journal entries given above, prepare the Cash Account and Capital Account in the Ledger.

3. Explain the different types of accounting errors. Give examples of rectification entries.
4. The following balances are extracted from the books of ABC Ltd.:

- Capital: 1,50,000
- Machinery: 60,000
- Furniture: 20,000
- Debtors: 30,000
- Creditors: 25,000
- Cash: 40,000

Adjustments:

- Depreciate Machinery by 10%
- Provision for Doubtful Debts 5% of Debtors

Prepare a Balance Sheet.

5. A firm requires 20,000 units annually. Ordering cost per order is Rs. 250, carrying cost per unit per year is Rs. 10. Calculate:

- EOQ
- Number of orders per year
- Annual ordering cost

PAPER NAME: PRINCIPLES OF MANAGEMENT
PAPER CODE: MIM101

1. What are the various objectives of planning?
2. Define Management. State the major functions of Management..
3. Describe Henry Fayol's 14 Principles of Management.
4. Describe the steps involved in planning process.
5. What are the bases for departmentation in a business organisation? State also the difficulties of delegation.
6. State the main causes of conflict between line and staff officials in an enterprise. How can they be removed?

PAPER NAME: BASICS OF EVOLUTIONARY BIOLOGY
PAPER CODE: GE 1B-07

1. Write the difference between prokaryotic & eukaryotic cell.
2. Define the term (1) Hot dilute soup (2) Coacervate model.
3. Explain the Mutation theory of evolution.
4. Write a short note on Hardy Weinberg Equilibrium.
5. Write a short note on Darwin Theory of Natural Selection.

PAPER NAME: ENGLISH & PROFESSIONAL COMMUNICATION AND SOFT SKILL
PAPER CODE: AECC101

1. What is Tense? How many tenses are there? Describe entire tense and its formation with examples in details.
2. What is Narration? What is voice? Give three examples of Direct to Indirect Narration and three examples of Active to Passive voice.
3. What is communication? Write types and importance of communication.
4. i) Nothing can be gained without labour. (Voice change)
ii) Ram asked me if I had had my lunch. (Change into Direct Narration)
iii) Ram is not heavier than Rahim. (Positive Degree)
iv) If you don't come I shall not go. (Use unless)
v) Though he is poor he is honest. (Make it simple sentence)
vi) Give an account of Verbal and Non-verbal communication.
5. Write a short note about the importance of digital literacy between students and teachers.

BBA-1ST SEM - THEORY
PAPER NAME: BUSINESS COMMUNICATION
PAPER CODE: AEC101

1. Define Business communication. Mention types also.
2. Differentiate between Formal and Informal Communication.
3. What are the key components for effective e-mail?
4. What are the key components of team communication?
5. Describe the role of social media in digital communication.
6. What do you mean by Digital etiquettes?

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PAPER NAME: PRINCIPLES AND PRACTICES OF MANAGEMENT
PAPER CODE: CC 101

1. What is Management?
2. Write 5 functions of Management?
3. Briefly state Taylor's scientific theory of management.
4. What is planning? What are the importances of planning?
5. Briefly discuss Fayol's 14 Principles of Management.

PAPER NAME: FINANCIAL ACCOUNTING
PAPER CODE: CC-102

1. State the three main types of accounts?
2. What is the double-entry system of accounting?

3. Discuss the importance of disclosures in final accounts.
4. Discuss the various errors found in trial balance.
5. Difference between Trading and P/L account.

PAPER NAME: BUSINESS STATISTICS AND LOGIC

PAPER CODE: CC103

1. First four moments about mean of a distribution are 0, 2.5, 0.7 and 18.75. Find coefficient of skewness and kurtosis.
2. From the following data, find the two regression equations and estimate Y when X = 18.

| | | | | | |
|----|----|----|----|----|----|
| X: | 10 | 12 | 15 | 18 | 20 |
| Y: | 20 | 25 | 30 | 35 | 40 |

3. Find the persons coefficient of correlation between price and demand from the following data.

| | | | | | | | |
|--------|----|----|----|----|----|----|----|
| Price | 11 | 13 | 15 | 17 | 18 | 19 | 20 |
| Demand | 30 | 29 | 24 | 24 | 21 | 18 | 15 |

4. The probability that a student passes an examination is 0.6. Find the probability that exactly 3 students pass out of 5 students selected at random using Binomial distribution.
5. The mean and standard deviation of a normal distribution are 50 and 10 respectively. Find the probability that a randomly selected item lies:
 - (a) Between 40 and 60
 - (b) Above 65
 - (c) Below 35

PAPER NAME: ENVIRONMENTAL SCIENCE AND SUSTAINABILITY

PAPER CODE: VAC101

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MHA-1ST SEM - THEORY

PAPER NAME:BASIC CONCEPT OF HEALTH

PAPER CODE:MHAN101

1. Define Health according to WHO. Discuss the dimensions of health (physical, mental, social, spiritual, emotional, etc.)
2. Explain the determinants of health with suitable examples.

3. What are health indicators? Describe mortality, morbidity, and socio-economic indicators used to measure community health.
4. Explain the concept of quality of life and its relationship with health.
5. Define disease. Discuss the natural history of disease and its stages.

PAPER NAME: HEALTH CARE SERVICES
PAPER CODE: MHAN102

1. Explain the concept of fertility rate and its significance in public health.
2. What is maternal mortality rate (MMR)? Why is it an important health indicator?
3. How does migration affect the health care delivery system?
4. What are the main functions of primary health centres (PHCs) in India
5. What is the importance of community health services?

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PAPER NAME: EPIDEMIOLOGY & HEALTHCARE IN ITS CHANGING SCENARIO
PAPER CODE: MHAN103

1. Define epidemiology and explain its importance in public health.
2. What is the difference between endemic, epidemic, and pandemic diseases?
3. Explain the concept of epidemiological transition with suitable examples.
4. Describe the role of epidemiology in healthcare planning and management**.
5. How does the healthcare scenario change with advancements in technology and research?

PAPER NAME: HEALTH EDUCATION & HEALTH COMMUNICATION
PAPER CODE: MHAN104

1. Explain the importance of Health Education in improving community health.
2. What are the principles of communication in health education?
3. Describe the role of mass media in spreading health awareness.
4. Differentiate between formal and informal communication in health services.
5. Write a short note on barriers to effective communication in health education.

PAPER NAME: PRINCIPLES OF MANAGEMENT & ORG. BEHAVIOR
PAPER CODE: MHAN105

1. What is MBO? Discuss the process of MBO with process charts.
2. Assess the contributions of Henry Fayol to the development of management thought.
3. Draw and explain the structure of a matrix organization.
4. Write a short note on planning process.
5. What is organization? Give the steps of organizing. Draw a typical organization chart for a large multidisciplinary hospital.

6. What are the skills required of a successful manager?

**PAPER NAME:FINANCIAL MANAGEMENT
PAPER CODE: MHAN106**

1. What is capital budgeting? Explain any two methods of evaluating capital investment proposals.
2. Differentiate between Cash Flow Statement and Fund Flow Statement with examples.
3. Define budgetary control. Explain its objectives and advantages in financial management.
4. Define marginal costing. Explain its advantages and limitations.
5. What is ratio analysis? Explain any three types of ratios with suitable examples.
6. Define working capital. Explain the factors affecting the working capital requirements of a company.