

VIDYA VIHAR COLLEGE
MAULANA MAZHARUL HAQUE ARABIC & PERSIAN UNIVERSITY, PATNA

BCA 1ST YEAR

INTERNAL ASSIGNMENT

SESSION : 2023-26

PAPER : I

INRODUCTION TO INFORMATION TECH.

[MAX MARKS : 20]

The question paper is in consists two sections A & B. Section - A consists 05 short answer type questions. Each question is of 02 marks (word limit 100 words). Attempt all questions. Section - B consists of 02 descriptive type question. Each question is of 05 marks (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary .

Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> Define Primary Memory and Secondary Memory?
- 2> What is Scanner and its types?
- 3> Explain SMTP?
- 4> What is Line Configuration and its types?
- 5> Define WWW and Search Engine?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]

- 1> Explain all the Generation of Computer?
- 2> What is Network Topology. And explain also its types with diagram?

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PAPER : II

COMPUTER MATHEMATICAL FOUNDATION

[MAX MARKS : 20]

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Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> State and prove De-morgan's Law?
- 2> Define Cross Product. Explain with an example?
- 3> Find the product of given matrix

$$\begin{bmatrix} 2 & 5 & 7 \\ 3 & 2 & 1 \end{bmatrix} \quad \begin{bmatrix} 5 & 7 \\ 0 & 2 \\ 8 & 7 \end{bmatrix}$$

- 4> If $A = \{2, 3, 5, 8\}$, $B = \{1, 2, 3, 4, 5\}$. Find
(a) $A \cup B$ (b) $A \cap B$
- 5> Find X, Y and Z from the matrix equation:-

$$\begin{bmatrix} X - 3 & 3X - Z \\ X + Y + 2 & X + Y + Z \end{bmatrix} = \begin{bmatrix} -2 & 0 \\ 5 & 6 \end{bmatrix}$$

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]

- 1> Solve the equations using Gauss Jordan Method
 - i> $X + 2y + 6z = 22$
 - ii> $3x + 4y + z = 26$
 - iii> $6x - y - z = 19$

- 2> Define and draw the graph of :- i> Regular graph ii> Multiple graph iii> Simple graph iv> Pseudo graph v> Mixed graph

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PAPER : III

COMMUNICATION AND SOFT SKILL

[MAX MARKS : 20]

The question paper is in consists two sections-A & B. Section-A consists of 05 short answer type questions. Each question is of 02 marks (word limit 100 words). Attempt all questions. Section-B consists of 02 descriptive type questions. Each question is of 05 marks (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary.

Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> What is Communication?
 - 2> Define Noise. Explain with diagram.
 - 3> What do you mean by Extra – personal communication? Describe with help of example.
 - 4> What is Non- Verbal communication?
- OR
- Define Mass Communication?
- 5> Explain Group Discussion and its importance.

Section : B

2. Long answer type questions (maximum limit 250-300 words). Attempt all questions. [05 x 2 = 10]

- 1> Explain Letter. Also discuss the types of letter in details.
 - 2>What are the barriers in Communication. Explain any ten.
- OR
- What do you mean by 7c's of Communication?

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PAPER : V

PROGRAMMING IN “C”

[MAX MARKS : 20]

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Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> What is Pointer?
- 2> Define function and its types in C programming language?
- 3> What is Array and its syntax in C programming language?
- 4> Write a program to print swap two number without using third variable?
- 5> What is call by value and call by reference?

Section : B

2. Long answer type questions (maximum limit 250-300 words). Attempt all questions. [02x5 = 10]

- 1> Write a program to print ---



- 2> Explain all the different aspects of function calling in C?

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PAPER : VI

OPERATING SYSTEM

[MAX MARKS : 20]

The question paper is in consists two sections A & B. Section - A consists of 05 short answer type questions. Each question carry 02 marks. Attempt all questions. Section - B consists of 02 descriptive type questions. Each question is of 05 marks (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary.

Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> What is Operating system?
- 2> Differentiate between Multitasking and Multiprogramming Operating system?
- 3> What is Memory Management?
- 4> Explain the terms:-
 - i> Context Switching
 - ii> Address Binding
 - iii> MMU and Memory Mapping
- 5> What is Virtual Memory and Demand Paging?

Section : B

⇒ **Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]**

- 1> What is CPU scheduling? Explain all types of CPU scheduling algorithm with example?
- 2> What is Deadlock? Explain necessary condition for deadlock and also explain deadlock management?

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PAPER: VII

COMPUTER SYSTEM ARCHITECTURE

[MAX MARKS : 20]

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Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> What is Boolean Algebra?
- 2> Differentiate between Sequential Circuit and Combinational Circuit?
- 3> Explain multiplexer and De-multiplexer?
- 4> Explain K-Map using 2 variable and 3 variable?
- 5> Explain the term cache memory?

Section: B

2. Long answer type questions (maximum limit 250-300 words). Attempt all questions. [02 x 5 = 10]

- 1> Explain and draw SR- flip flop and JK- flip flop using NAND gate with its all components like tables and k-map?
- 2> Solve the question on Error detection and correction using Hamming code. The data words is 1111 and error is in 5th position?