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F.V. B.C.A. (Sem - I)
Examination December-2022
Mathematics

Seat No:

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[Time: Three Hours]

[Max. Marks:70]

Instructions:

- (1) All questions are compulsory.
- (2) Figures to the right indicate marks of corresponding question.
- (3) Follow usual notations.
- (4) Use of non-programmable scientific calculator is allowed.

S.D. Gahvi
Student's Signature

Q.1

Answer the following:

[10]

- 1] Define Infinite Set with illustration.
- 2] If $A = \{a, e, i, o, u\}$ then find the number of sets in power set of A .
- 3] Define: One-One function.
- 4] If $f: A \rightarrow B$, where $f(x) = 2x - 1$ and $A = \{1, 2, 3, 4\}$ then find R_f .
- 5] Define: Critical row.
- 6] Prove that $p \wedge c = c$ where p is the statement and c means contradiction.
- 7] Define: Principle of duality.
- 8] Write the dual statement of $x \cdot (y \cdot z) = (x \cdot y) \cdot (x \cdot z)$
- 9] Define Minor of an element.
- 10] Mention which type of matrix is $A = \begin{bmatrix} 1 & 2 & 3 & 4 \end{bmatrix}$

Q.2

(a) In usual notations prove that $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$.

[05]

OR

(a) In usual notations prove that $(A \cap B)' = A' \cup B'$

(b) Attempt any two:

[10]

- 1] In a society of 250 people, each person speaks either Gujarati or Hindi, 158 people speak Gujarati and 185 speak Hindi then find
 - (i) the number of people who can speak both the languages.
 - (ii) the number of people who speak only Gujarati.
- 2] If $A = \{1, 3, 4, 6\}$, $B = \{2, 4, 5\}$ and $C = \{3, 4, 5\}$ then verify that
 $A \cap (B - C) = (A \cap B) - (A \cap C)$
- 3] If $A = \{x: x \in \mathbb{N}, x < 6\}$, $B = \{x: x \in \mathbb{N}, 3 < x < 9\}$ and $C = \{1, 4, 5, 7\}$ then verify
 $(A \cup B) \cap C = (A \cap C) \cup (B \cap C)$
- 4] If $A = \{2, 3, 5, 6, 8\}$, $B = \{1, 2, 5, 7, 9\}$ and $U = \{1, 2, \dots, 10\}$ find $A \cup B$, $A' \cup B'$,
 $A - B$, $B \times A$.

Mathematics Model Questions Answers Paper 1

PT Brinkman



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