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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 $x \wedge (y \vee z) = (x \wedge y) \vee (x \wedge z)$
- 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

J Rink



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Enjoying the Track of Term: An Mental Symphony within **Mathematics Model Questions Answers Paper 1**

In a global used by monitors and the ceaseless chatter of quick connection, the melodic elegance and psychological symphony produced by the written word frequently fade into the backdrop, eclipsed by the persistent sound and disturbances that permeate our lives. Nevertheless, set within the pages of **Mathematics Model Questions Answers Paper 1** a wonderful fictional treasure full of natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that fascinating masterpiece conducts viewers on an emotional trip, well unraveling the hidden melodies and profound influence resonating within each cautiously constructed phrase. Within the depths of the moving analysis, we shall explore the book is main harmonies, analyze their enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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