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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

Dr. Sandeep Ahlawat



Mathematics Model Questions Answers Paper 1:

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Table of Contents Mathematics Model Questions Answers Paper 1

1. Understanding the eBook Mathematics Model Questions Answers Paper 1
 - The Rise of Digital Reading Mathematics Model Questions Answers Paper 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Model Questions Answers Paper 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics Model Questions Answers Paper 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Model Questions Answers Paper 1
 - Personalized Recommendations
 - Mathematics Model Questions Answers Paper 1 User Reviews and Ratings
 - Mathematics Model Questions Answers Paper 1 and Bestseller Lists
5. Accessing Mathematics Model Questions Answers Paper 1 Free and Paid eBooks

- Mathematics Model Questions Answers Paper 1 Public Domain eBooks
 - Mathematics Model Questions Answers Paper 1 eBook Subscription Services
 - Mathematics Model Questions Answers Paper 1 Budget-Friendly Options
6. Navigating Mathematics Model Questions Answers Paper 1 eBook Formats
- ePub, PDF, MOBI, and More
 - Mathematics Model Questions Answers Paper 1 Compatibility with Devices
 - Mathematics Model Questions Answers Paper 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematics Model Questions Answers Paper 1
 - Highlighting and Note-Taking Mathematics Model Questions Answers Paper 1
 - Interactive Elements Mathematics Model Questions Answers Paper 1
8. Staying Engaged with Mathematics Model Questions Answers Paper 1
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Model Questions Answers Paper 1
9. Balancing eBooks and Physical Books Mathematics Model Questions Answers Paper 1
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Model Questions Answers Paper 1
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Model Questions Answers Paper 1
- Setting Reading Goals Mathematics Model Questions Answers Paper 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Model Questions Answers Paper 1
- Fact-Checking eBook Content of Mathematics Model Questions Answers Paper 1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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