

Course Title: Discrete Structure
Discipline/Program: BSCS(3A), BSS
Total Marks: 30
Time allowed: 2.5 Hours

Question No 1: (3+3)

- a) Write an explicit formula for the following sequence and find the 19th term in the sequence using explicit formula.

$$1 - \frac{1}{2}, \frac{1}{2} - \frac{1}{3}, \frac{1}{3} - \frac{1}{4}, \frac{1}{4} - \frac{1}{5}, \dots$$



- b) Find the sum of series of first three hundred natural numbers through formula

Question No 2: (4+4)

- a) Define the type of each relation.
- $R1 = \{(1, 1), (1, 2), (1, 3), (2, 3)\}$
 - $R2 = \{(1, 2), (1, 4), (2, 3), (3, 4)\}$
 - $R3 = \{(2, 1), (2, 4), (2, 3), (3,4)\}$
 - $R4 = \{(2, 1), (2, 4), (2, 3), (3,4)\}$
- b) After that only draw the directed graph for reflexive relation.

Question No 3: (3+5)

- a) Find all functions from $X = \{ a, b \}$ to $Y = \{ u, v \}$.
- b) Using truth table identify critical rows and verify either argument is valid or invalid :
- Socrates has a new toga or he didn't waste 30 drachmas.
 - Plato has a pound of feta cheese or a quart of olive oil.
 - Socrates wasted 30 drachmas and Plato doesn't have a pound of feta cheese.
 - Therefore, Socrates has a new toga and Plato has a quart of olive oil.

Question No 4: (4+4)

- a) Find the values $(A \cap B)^c = A^c \cup B^c$ where Given sets are:

- $A = \{ 1,2 \}$
- $B = \{ 2,3 \}$
- $U = \{ 1,2,3,4 \}$

And Prove the above one using Venn Diagrams and with the help of Membership Table.

- b) Prove the given by using Membership Table:

- (i) $A - (A - B) = A \cap B$
- (ii) $(A \cap B)^c = A^c \cup B^c$
- (iii) $A - B = A \cap B^c$

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Table of Contents Xtrem Past Papers

1. Understanding the eBook Xtrem Past Papers
 - The Rise of Digital Reading Xtrem Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Xtrem Past Papers
 - 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 Xtrem Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Xtrem Past Papers
 - Personalized Recommendations
 - Xtrem Past Papers User Reviews and Ratings
 - Xtrem Past Papers and Bestseller Lists
5. Accessing Xtrem Past Papers Free and Paid eBooks

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