

PAPER 1 : DISCRETE MATHEMATICS-2016*Time : Three Hours]**[Maximum Marks : 50*

Note : Attempt any two parts from each question. All questions carry equal marks.

UNIT - 1

1. (a) Prove that $p \wedge q \Rightarrow p \vee q$ is a tautology.
(b) If P is a statement such that for any statement Q , the statement $P \wedge Q$ is false, then what do you conclude about the truth value of P ?
(c) Write the following predicate into symbols and also write its negative in symbols :
"Every rational number is a real number."

UNIT - 2

2. (a) Prove that the complement of each element in a Boolean algebra B is unique.
(b) If elements a and b of a Boolean algebra B satisfy the relation $a \leq b$, then prove that :
$$a + bc = b(a + c) \text{ for } c \in B$$

(c) The bulb inside a car of two doors is on when one of these doors is opened and it is also on when a switch of the dash board is pressed. Draw a diagram for the control path.

UNIT - 3

3. (a) Write the following functions into disjunctive normal forms of 3 variables x, y, z :
(i) $x' + y'$ (ii) $xy' + x'y$ (iii) $(x + y)(x' + z')$
(b) Draw a binomial net for the flow function :
(i) $x.y + x'.y'$ (ii) $x.y + x.y' + x'.y$
(c) Design tree-not of third order in the 3 variables for the following function :

$$x'yz + x'y'z + xyz$$

UNIT - 4

4. (a) If A and B have n elements in common, how many elements do $A \times B$ and $B \times A$ have in common ?
(b) Prove that the relation
$$R = \{(x, y) : x - y \text{ is divisible by } n (n > 1)\}$$
defined in the set of positive integers N , where $n, x, y \in N$ is an equivalence relation.

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Table of Contents Grade 12014 Mathemetics Caps Question Paper Term 17 March

1. Understanding the eBook Grade 12014 Mathemetics Caps Question Paper Term 17 March
 - The Rise of Digital Reading Grade 12014 Mathemetics Caps Question Paper Term 17 March
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12014 Mathemetics Caps Question Paper Term 17 March
 - 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 Grade 12014 Mathemetics Caps Question Paper Term 17 March
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12014 Mathemetics Caps Question Paper Term 17 March
 - Personalized Recommendations
 - Grade 12014 Mathemetics Caps Question Paper Term 17 March User Reviews and Ratings
 - Grade 12014 Mathemetics Caps Question Paper Term 17 March and Bestseller Lists

5. Accessing Grade 12014 Mathematics Caps Question Paper Term 17 March Free and Paid eBooks
 - Grade 12014 Mathematics Caps Question Paper Term 17 March Public Domain eBooks
 - Grade 12014 Mathematics Caps Question Paper Term 17 March eBook Subscription Services
 - Grade 12014 Mathematics Caps Question Paper Term 17 March Budget-Friendly Options
6. Navigating Grade 12014 Mathematics Caps Question Paper Term 17 March eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 12014 Mathematics Caps Question Paper Term 17 March Compatibility with Devices
 - Grade 12014 Mathematics Caps Question Paper Term 17 March Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 12014 Mathematics Caps Question Paper Term 17 March
 - Highlighting and Note-Taking Grade 12014 Mathematics Caps Question Paper Term 17 March
 - Interactive Elements Grade 12014 Mathematics Caps Question Paper Term 17 March
8. Staying Engaged with Grade 12014 Mathematics Caps Question Paper Term 17 March
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 12014 Mathematics Caps Question Paper Term 17 March
9. Balancing eBooks and Physical Books Grade 12014 Mathematics Caps Question Paper Term 17 March
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 12014 Mathematics Caps Question Paper Term 17 March
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 12014 Mathematics Caps Question Paper Term 17 March
 - Setting Reading Goals Grade 12014 Mathematics Caps Question Paper Term 17 March
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 12014 Mathematics Caps Question Paper Term 17 March
 - Fact-Checking eBook Content of Grade 12014 Mathematics Caps Question Paper Term 17 March
 - 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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