

**PJ-582**

1 Semester M.C.A. Examination, February - 2020
(CBCS Scheme)

COMPUTER SCIENCE

MCA - 104T : Discrete Mathematics

Time : 3 Hours

Max. Marks : 70

PART - A

Answer any five questions. Each question carries six marks.

5×6=30

1. (a) Suppose $A, B \subseteq \mathbb{Z} \times \mathbb{Z}$ with $A = \{(x, y) | y = 5x - 1\}$, $B = \{(x, y) | 3x - y = -7\}$. Find $\overline{A \cup B}$. 3+3
(b) For any set A , prove that $A \times \phi = \phi \times A = \phi$.
2. (a) Let $A = \{1, 2, 3, 4, 6, 8, 12\}$. On A , define the partial ordering relation R by xRy if and only if x divides y . Draw the Hasse diagram for R . 3+3
(b) Let $f, g : \mathbb{R} \rightarrow \mathbb{R}$, are defined by $f(x) = 3x + 7$ and $g(x) = x(x^2 - 1)$ for all $x \in \mathbb{R}$. Verify that f is one-one but g is not.
3. Use mathematical induction to prove that $1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$ where $n \in \mathbb{Z}^+$. 6
4. Prove that $R \rightarrow S$ is a valid conclusion from the premises $P \rightarrow (Q \rightarrow S)$, $\neg R \vee P$, and Q . 6
5. A collection of 10 electric bulbs contain 3 defective ones. 2+2+2
(i) In how many ways can a sample of 4 bulbs be selected ?
(ii) In how many ways can a sample of four bulbs be selected which contain 2 good ones and 2 defective ones ?
(iii) In how many ways can the sample of 4 bulbs be selected so that either the sample contains 3 good ones and 1 defective ones or 1 good and 3 defective ones ?
6. Show that the open interval $(0, 1)$ is uncountable. 6
7. Prove that every set of 37 positive integers contain at least two integers that leave the same remainders upon division by 36. 6

P.T.O.

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ML Yell



Mca 2nd Sem Previous Year Question Paper:

The book delves into Mca 2nd Sem Previous Year Question Paper. Mca 2nd Sem Previous Year Question Paper is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mca 2nd Sem Previous Year Question Paper, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Mca 2nd Sem Previous Year Question Paper
 - Chapter 2: Essential Elements of Mca 2nd Sem Previous Year Question Paper
 - Chapter 3: Mca 2nd Sem Previous Year Question Paper in Everyday Life
 - Chapter 4: Mca 2nd Sem Previous Year Question Paper in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, this book will draw a conclusion about Mca 2nd Sem Previous Year Question Paper. The final chapter will summarize the key points that have been discussed throughout the book.
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Table of Contents Mca 2nd Sem Previous Year Question Paper

1. Understanding the eBook Mca 2nd Sem Previous Year Question Paper
 - The Rise of Digital Reading Mca 2nd Sem Previous Year Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Mca 2nd Sem Previous Year Question Paper
 - 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 Mca 2nd Sem Previous Year Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mca 2nd Sem Previous Year Question Paper
 - Personalized Recommendations
 - Mca 2nd Sem Previous Year Question Paper User Reviews and Ratings
 - Mca 2nd Sem Previous Year Question Paper and Bestseller Lists
5. Accessing Mca 2nd Sem Previous Year Question Paper Free and Paid eBooks
 - Mca 2nd Sem Previous Year Question Paper Public Domain eBooks
 - Mca 2nd Sem Previous Year Question Paper eBook Subscription Services
 - Mca 2nd Sem Previous Year Question Paper Budget-Friendly Options
6. Navigating Mca 2nd Sem Previous Year Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Mca 2nd Sem Previous Year Question Paper Compatibility with Devices
 - Mca 2nd Sem Previous Year Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mca 2nd Sem Previous Year Question Paper
 - Highlighting and Note-Taking Mca 2nd Sem Previous Year Question Paper
 - Interactive Elements Mca 2nd Sem Previous Year Question Paper

8. Staying Engaged with Mca 2nd Sem Previous Year Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mca 2nd Sem Previous Year Question Paper
9. Balancing eBooks and Physical Books Mca 2nd Sem Previous Year Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mca 2nd Sem Previous Year Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mca 2nd Sem Previous Year Question Paper
 - Setting Reading Goals Mca 2nd Sem Previous Year Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mca 2nd Sem Previous Year Question Paper
 - Fact-Checking eBook Content of Mca 2nd Sem Previous Year Question Paper
 - 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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