

**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 $A = \{(x, y) | y = 5x - 1\}$, $B = \{(x, y) | 3x - y = -7\}$. 3+3
Find $\overline{A \cup B}$.
(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 3+3
by xRy if and only if x divides y . Draw the Hasse diagram for R .
(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 $1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$ 6
where $n \in \mathbb{Z}^+$.
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 6
leave the same remainders upon division by 36.

P.T.O.

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JE Gale



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The Top Books of the Year Nmathematics Question Paper 2july The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. Nmathematics Question Paper 2july : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Nmathematics Question Paper 2july : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Nmathematics Question Paper 2july

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

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