

MCA (SEM-I)
Discrete Mathematics
(OCT-16)

QP CODE : 510300

Duration 3 hours

Total 100 marks

- N.B:
- (1) Question No. 1 is compulsory.
 - (2) Attempt any four out of remaining six questions.
 - (3) Assume any necessary data but justify the same.
 - (4) Figures to the right indicate marks.

1. a) (i) Obtain a disjunctive normal form of $P \vee (\neg P \rightarrow (Q \vee (Q \rightarrow \neg R)))$ [5]

(ii) Let $S = \{1, 2, 3, 4\}$ and $A = S \times S$. Define the following relation R on A .

$$(a, b)R(a', b') \text{ if and only if } \frac{a}{b} = \frac{a'}{b'}.$$

Show that R is an equivalence relation. Compute A/R . [5]

b) (i) Determine whether the set of real numbers with $a \cdot b = a + b + 2$ is a semigroup, a monoid or neither. If it is a monoid, specify the identity. If it is a semigroup or a monoid determine whether it is commutative. [5]

ii) The solution of the recurrence relation $C_0 a_n + C_1 a_{n-1} + C_2 a_{n-2} = f(n)$ is $4^n + 5^n + 6$. Given that $f(n) = 30$ for all n . Determine C_0, C_1, C_2 . [5]

2. a) (i) Use laws of logic to show the following equivalence. $(P \rightarrow Q) \wedge (R \rightarrow Q) = (P \vee R) \rightarrow Q$. [5]

ii) What is functionally complete set of connectives. Explain with two examples. [5]

b) Let $A = \{1, 2, 3, 5, 6, 10, 15, 30\}$ and R be relation defined by aRb if and only if "a divides b". Show that R is a partial order relation. Draw the Hasse diagram of (A, R) . [10]

3. a) (i) Using mathematical induction to prove that $3^n + 2n - 1$ is divisible by 4 for every positive integer n . [5]

ii) Show that the hypothesis "If you send me e-mail message, then I will finish writing the program", "If you do not send me an e-mail message, then I will go to sleep early" and "If I go to sleep early, then I will wake up feeling refreshed", leads to the conclusion "If I do not finish writing the program then I will wake up feeling refreshed". [5]

b) (i) Let the universe of discourse be $D = \{0, 1, 2, \dots, 9\}$. Let $Q(x, y)$ be the statement " $x + y = x \cdot y$ ". Determine the truth values of the following.

Question Paper Discrete Mathematics 1 Semester

Ram Babu



Question Paper Discrete Mathematics 1 Semester:

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teaching practice in a high school and how those efforts influenced and were influenced by a local university It challenges us to rethink boundaries between theory and practice and the relative roles of teachers and university faculty in educational endeavors MAA Notes ,1983 Resources in Education ,1991 Discrete Mathematics in the First Two Years Anthony Ralston,1989 **The American Mathematical Monthly** ,1925 Includes section Recent publications **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,2007 *Using Writing to Teach Mathematics* Andrew Sterrett,1990 This collection of essays is an outgrowth of the widespread interest shown in sessions of contributed papers on writing given at the 1988 and 1989 Annual Meetings of the MAA Many of the 30 authors of the essays included in this volume participated in those sessions and each has considerable experience in requiring students to write about mathematics **Assessment Practices in Undergraduate Mathematics** Bonnie Gold,Sandra Keith,William A. Marion,1999 The collection of 72 articles offers the mathematics teacher suggestions for assessing testing and grading teaching efficacy how departments place students into courses the effectiveness of the major and the quantitative literacy of the graduating students Lacks an index Annotation c Book New *Notices of the American Mathematical Society* American Mathematical Society,1992 **Graphs and Discovery** Siemion Fajtlowicz,2005 This volume presents topics addressed at the working group meeting and workshop on Computer generated Conjectures from Graph Theoretic and Chemical Databases held at Rutgers University Piscataway NJ The events brought together theoreticians and practitioners working in graph theory and chemistry to share ideas and to set an agenda for future developments in the use of computers for generating scientific conjectures Articles included in the volume were written by developers of some of the most important programs used around the world today The disciplines represented include theoretical and applied computer science statistics discrete and non discrete mathematics chemistry and information science The book is suitable for researchers and students interested in the use of computers in graph theory *University of Colorado at Denver Catalog* University of Colorado at Denver,2002 *Indian National Bibliography* B. S. Kesavan,2016-05 *Resources in Education* ,1992 **Proceedings of the Fourth Annual International Conference on Technology in Collegiate Mathematics, Portland State University, Department of Mathematics, Portland, Oregon, November 15-17, 1991** Lewis Lum,1993 **Index of Conference Proceedings** British Library. Document Supply Centre,1997 Catalog Wichita State University,1964 Includes general information degree requirements and curricula

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Table of Contents Question Paper Discrete Mathematics 1 Semester

1. Understanding the eBook Question Paper Discrete Mathematics 1 Semester
 - The Rise of Digital Reading Question Paper Discrete Mathematics 1 Semester
 - Advantages of eBooks Over Traditional Books
2. Identifying Question Paper Discrete Mathematics 1 Semester
 - 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 a Question Paper Discrete Mathematics 1 Semester
 - User-Friendly Interface
4. Exploring eBook Recommendations from Question Paper Discrete Mathematics 1 Semester
 - Personalized Recommendations

- Question Paper Discrete Mathematics 1 Semester User Reviews and Ratings
- Question Paper Discrete Mathematics 1 Semester and Bestseller Lists
- 5. Accessing Question Paper Discrete Mathematics 1 Semester Free and Paid eBooks
 - Question Paper Discrete Mathematics 1 Semester Public Domain eBooks
 - Question Paper Discrete Mathematics 1 Semester eBook Subscription Services
 - Question Paper Discrete Mathematics 1 Semester Budget-Friendly Options
- 6. Navigating Question Paper Discrete Mathematics 1 Semester eBook Formats
 - ePub, PDF, MOBI, and More
 - Question Paper Discrete Mathematics 1 Semester Compatibility with Devices
 - Question Paper Discrete Mathematics 1 Semester Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Question Paper Discrete Mathematics 1 Semester
 - Highlighting and Note-Taking Question Paper Discrete Mathematics 1 Semester
 - Interactive Elements Question Paper Discrete Mathematics 1 Semester
- 8. Staying Engaged with Question Paper Discrete Mathematics 1 Semester
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Question Paper Discrete Mathematics 1 Semester
- 9. Balancing eBooks and Physical Books Question Paper Discrete Mathematics 1 Semester
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Question Paper Discrete Mathematics 1 Semester
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Question Paper Discrete Mathematics 1 Semester
 - Setting Reading Goals Question Paper Discrete Mathematics 1 Semester
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Question Paper Discrete Mathematics 1 Semester
 - Fact-Checking eBook Content of Question Paper Discrete Mathematics 1 Semester

- 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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