

Question Paper Code : 70141

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Third Semester

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MA 3354 – DISCRETE MATHEMATICS(Common to Computer and Communication Engineering/Artificial Intelligence and
Data Science/Computer Science and Business Systems/Information Technology)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

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1. Prove that $(p \rightarrow (p \vee q))$ is a tautology.
2. Symbolize the statement "All men are mortal".
3. Among 200 people, how many of them were born on the same month?
4. Find the first four terms of the sequence defined by the recurrence relations and initial condition $a_n = a_{n-1}^2$, $a_1 = 2$.
5. Define the pseudograph with an example.
6. Draw the graph of the adjacency matrix
$$\begin{bmatrix} 0 & 1 & 1 & 1 \\ 1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 1 \\ 1 & 0 & 1 & 0 \end{bmatrix}$$
.
7. Define monoid.
8. Define the homomorphism of groups.
9. Draw Hasse diagram for $\leq$ relation on $\{0, 2, 5, 10, 11, 15\}$.
10. Define lattice.

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Marcel A. Müller



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Table of Contents Nov Dec Mathematic Grd2013

1. Understanding the eBook Nov Dec Mathematic Grd2013
 - The Rise of Digital Reading Nov Dec Mathematic Grd2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Nov Dec Mathematic Grd2013
 - 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 Nov Dec Mathematic Grd2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nov Dec Mathematic Grd2013
 - Personalized Recommendations
 - Nov Dec Mathematic Grd2013 User Reviews and Ratings
 - Nov Dec Mathematic Grd2013 and Bestseller Lists
5. Accessing Nov Dec Mathematic Grd2013 Free and Paid eBooks
 - Nov Dec Mathematic Grd2013 Public Domain eBooks
 - Nov Dec Mathematic Grd2013 eBook Subscription Services
 - Nov Dec Mathematic Grd2013 Budget-Friendly Options
6. Navigating Nov Dec Mathematic Grd2013 eBook Formats

- ePub, PDF, MOBI, and More
- Nov Dec Mathematic Grd2013 Compatibility with Devices
- Nov Dec Mathematic Grd2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nov Dec Mathematic Grd2013
 - Highlighting and Note-Taking Nov Dec Mathematic Grd2013
 - Interactive Elements Nov Dec Mathematic Grd2013
- 8. Staying Engaged with Nov Dec Mathematic Grd2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nov Dec Mathematic Grd2013
- 9. Balancing eBooks and Physical Books Nov Dec Mathematic Grd2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nov Dec Mathematic Grd2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nov Dec Mathematic Grd2013
 - Setting Reading Goals Nov Dec Mathematic Grd2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nov Dec Mathematic Grd2013
 - Fact-Checking eBook Content of Nov Dec Mathematic Grd2013
 - 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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