

**COURSE CODE : MTH401**  
**COURSE NAME : DISCRETE MATHEMATICS**

Time Allowed: 01:30 hrs

Max. Marks: 50

1. This paper contains 4 questions divided in two parts.
2. All questions are compulsory.
3. The marks assigned to each questions are shown at the end of each question in square brackets.
4. Attempt either (a) OR (b) from each question of Part B.
5. Answer all questions in serial order.
6. Do not write anything on the question paper except your registration number at the designated space.

**PART A**

Q1(a) Write difference equation and its solution if its auxiliary equation has roots  $+4i, -4i, 2, 2, 2$ . [2.5 Marks]

(b) Solve  $y_{k+2} - 3y_{k+1} + 2y_k = 0$ . [2.5 Marks]

**PART B**

Q2 (a) (i) Solve  $y_{k+2} + y_k = 0$  [10]

(ii) Is the set of functions  $k^2 - 2k, 3k, 4$  linearly independent? [5]

[15 Marks]

**OR**

(b) (i) Show that  $\Delta k^{(n)} = nk^{(n-1)}$ . [5]

(ii) Solve  $3y_{k+2} + 8y_{k+1} + 4y_k = 0$  [10]

[15 Marks]

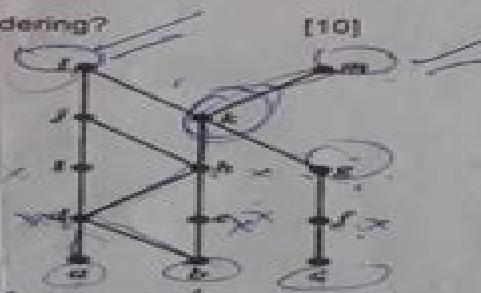
Q3 (a) Solve  $y_{k+2} + 2y_{k+1} + y_k = k^2 + 4k + 3$  [15 Marks]

(b) Solve  $y_{k+3} - 3y_{k+2} + 4y_{k+1} - 2y_k = 3 \cdot 4^{k-1}$  [15 Marks]

**OR**

Q4 (a) (i) Answer the following for the given partial ordering? [10]

- Find the maximal elements.  $a, b, c$
- Find the minimal elements.  $d, e, f$
- Is there a greatest element?  $\times$
- Is there a least element?  $\times$
- Find all upper bounds of  $\{a, b, c\}$ .
- Find the least upper bound of  $\{a, b, c\}$ , if it exists.  $k$
- Find all lower bounds of  $\{f, g, h\}$ .  $\times$
- Find the greatest lower bound of  $\{f, g, h\}$ , if it exists.  $\times$



1, k, m

(a) What do you mean by symmetric relation? Is a relation  $R = \{(a, b) / a \text{ is taller than } b\}$  on a set of all people symmetric? [5]

**OR**

(b) (i) Determine whether the relation  $R$  on the set of all integers is reflexive, symmetric, antisymmetric and transitive, where  $(x, y) \in R$  if and only if  $|x - y| < 1$ . [10]

(ii) Draw the hasse diagram of the set  $S = \{1, 2, 3, 6, 8, 9, 12, 15, 24, 32, 48\}$  under divisibility? [5] [15 Marks]

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## **Table of Contents Maaths Be 401 Question Paper With A Solution**

1. Understanding the eBook Maaths Be 401 Question Paper With A Solution
  - The Rise of Digital Reading Maaths Be 401 Question Paper With A Solution
  - Advantages of eBooks Over Traditional Books
2. Identifying Maaths Be 401 Question Paper With A Solution
  - 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 Maaths Be 401 Question Paper With A Solution
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maaths Be 401 Question Paper With A Solution
  - Personalized Recommendations
  - Maaths Be 401 Question Paper With A Solution User Reviews and Ratings
  - Maaths Be 401 Question Paper With A Solution and Bestseller Lists
5. Accessing Maaths Be 401 Question Paper With A Solution Free and Paid eBooks
  - Maaths Be 401 Question Paper With A Solution Public Domain eBooks
  - Maaths Be 401 Question Paper With A Solution eBook Subscription Services
  - Maaths Be 401 Question Paper With A Solution Budget-Friendly Options
6. Navigating Maaths Be 401 Question Paper With A Solution eBook Formats

- ePub, PDF, MOBI, and More
- Maaths Be 401 Question Paper With A Solution Compatibility with Devices
- Maaths Be 401 Question Paper With A Solution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maaths Be 401 Question Paper With A Solution
  - Highlighting and Note-Taking Maaths Be 401 Question Paper With A Solution
  - Interactive Elements Maaths Be 401 Question Paper With A Solution
- 8. Staying Engaged with Maaths Be 401 Question Paper With A Solution
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maaths Be 401 Question Paper With A Solution
- 9. Balancing eBooks and Physical Books Maaths Be 401 Question Paper With A Solution
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maaths Be 401 Question Paper With A Solution
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Maaths Be 401 Question Paper With A Solution
  - Setting Reading Goals Maaths Be 401 Question Paper With A Solution
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maaths Be 401 Question Paper With A Solution
  - Fact-Checking eBook Content of Maaths Be 401 Question Paper With A Solution
  - 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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