DAE / IA – 2017/07
MATH 113 APPLIED MATHEMATICS – I
PAPER – A (Part – B)

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Q.2 Write short answers to any eighteen from the following questions.

1. Solve the quadratic equation $x^2 - 3x - 18 = 0$ by quadratic formula.

Sol. $x^2 - 3x - 18 = 0$

$a = 1 \ , \ b = -3 \ , \ c = -18$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-3 \pm \sqrt{9 - 4(1)(-18)}}{2}$$

$$x = \frac{3 \pm \sqrt{9 + 72}}{2} = \frac{3 \pm \sqrt{81}}{2}$$

$$x = \frac{3 \pm 9}{2} \Rightarrow x = \frac{12}{2} = 6$$

$$x = \frac{-6}{2} = -3$$

2. Discuss the nature of the roots of the equation $2x^2 - 7x + 3 = 0$.

Sol. Here,

$a = 2 \ , \ b = -7 \ , \ c = 3$

$Disc = b^2 - 4ac$

$= (-7)^2 - 4(2)(3)$

$= 49 - 24$

$= 25 = 5^2$

Hence roots of given equation are rational and unequal.

3. For what value of K the sum of roots of $3x^2 + Kx + 5 = 0$ may be equal to the product of roots.

Sol. $3x^2 + Kx + 5 = 0$

$a = 3 \ , \ b = K \ , \ c = 5$

sum of roots = Product of roots (given)

$$\frac{-b}{a} = \frac{c}{a}$$

$$\frac{-K}{3} = \frac{5}{3}$$

$$K = \frac{5}{3} \times -3 = -5$$

4. Find the 7th term of an A.P, 4, 7.....

Sol. 1, 4, 7, ...7 *term*

$a_1 = 1, a_2 = 4, d = 4 - 1 = 3, d = 3$

$a_n = a_1 + (n-1)d$

$a_7 = a_1 + 6d = 1 + 6(3)$

$a_7 = 1 + 18 = 19$

5. Find the sum of the series 3+11+19+.....to 16 terms.

Sol. $a = 3 \ , \ d = 11 - 3 = 8 \ , \ n = 16$

$$S_n = \frac{n}{2}[2a + (n-1)d]$$

$$S_{16} = \frac{16}{2}[2(3) + (16-1)8]$$

$$= 8[6 + 15(8)] = 8[6 + 120] = 8 \times 126$$

$S_{16} = 1008$

6. Find the 6th term in G.P $1, 3^3, 3^6, \ldots\ldots\ldots$

Sol. $a_1 = 1 \ , \ a_2 = 3^3 = 27 \ , \ a_6 = ?$

$$r = \frac{a_2}{a_1} = \frac{27}{1}$$

$a_n = a_1 r^{n-1} \Rightarrow a_6 = a_1 r^5 = 1(27)^5 = 27^5$

7. Find the geometric mean between 4/3 and 243.

Sol. *Here* $a = \frac{4}{3} \ , \ b = 243$

$$G.M = \pm\sqrt{ab} = \pm\sqrt{\frac{4}{3}(243)} = \pm\sqrt{4(81)}$$

$G.M = \pm\sqrt{324} = \pm 18$

8. Write the formulas of sum of the first n terms of a geometric sequence.

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AW Rasmussen

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Table of Contents Mechanical Math 111st Year Past Papers

1. Understanding the eBook Mechanical Math 111st Year Past Papers
    - The Rise of Digital Reading Mechanical Math 111st Year Past Papers
    - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Math 111st Year Past Papers
    - 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 Mechanical Math 111st Year Past Papers
    - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Math 111st Year Past Papers

- Personalized Recommendations
- Mechanical Math 111st Year Past Papers User Reviews and Ratings
- Mechanical Math 111st Year Past Papers and Bestseller Lists

5. Accessing Mechanical Math 111st Year Past Papers Free and Paid eBooks
   - Mechanical Math 111st Year Past Papers Public Domain eBooks
   - Mechanical Math 111st Year Past Papers eBook Subscription Services
   - Mechanical Math 111st Year Past Papers Budget-Friendly Options
6. Navigating Mechanical Math 111st Year Past Papers eBook Formats
   - ePub, PDF, MOBI, and More
   - Mechanical Math 111st Year Past Papers Compatibility with Devices
   - Mechanical Math 111st Year Past Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Mechanical Math 111st Year Past Papers
   - Highlighting and Note-Taking Mechanical Math 111st Year Past Papers
   - Interactive Elements Mechanical Math 111st Year Past Papers
8. Staying Engaged with Mechanical Math 111st Year Past Papers
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Mechanical Math 111st Year Past Papers
9. Balancing eBooks and Physical Books Mechanical Math 111st Year Past Papers
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Mechanical Math 111st Year Past Papers
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Math 111st Year Past Papers
    - Setting Reading Goals Mechanical Math 111st Year Past Papers
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanical Math 111st Year Past Papers

- Fact-Checking eBook Content of Mechanical Math 111st Year Past Papers
- 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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