

Q.2 Write short answers to any eight questions 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)

4. Find the 7th term of an A.P. 1, 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, 3³, 3⁹,

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 $\frac{4}{3}$ 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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Table of Contents Mechanical Engineering Mathematics Past Year Papers

1. Understanding the eBook Mechanical Engineering Mathematics Past Year Papers
 - The Rise of Digital Reading Mechanical Engineering Mathematics Past Year Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Mathematics Past Year 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 Engineering Mathematics Past Year Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Mathematics Past Year Papers
 - Personalized Recommendations
 - Mechanical Engineering Mathematics Past Year Papers User Reviews and Ratings
 - Mechanical Engineering Mathematics Past Year Papers and Bestseller Lists

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