

Time Allowed : 2½ hours

General Instructions :

Attempt all questions from Section A and any four questions from Section B.
All working, including rough work, must be clearly shown, and must be done on the same sheet as the rest of the answer.

Omission of essential working will result in loss of marks.

The intended marks for questions or parts of questions are given in brackets []
Mathematical tables are provided.

SECTION - A (40 Marks)
(Attempt all questions from this Section)

Question 1 : Choose the correct answers to the questions from the given options: [15]

- (i) A consumer bought a T.V. from a dealer at a discount of 20% on the marked price of ₹40,000. If the rate of GST is 18%, then the tax paid by the consumer is :
 (a) ₹5760 (b) ₹2880 (c) nil (d) ₹7200
- (ii) The discriminant of $2x^2 - 5x + 1 = 0$ is :
 (a) 25 (b) 33 (c) 17 (d) 15
- (iii) If $(x - 2)$ is a factor of $x^2 + ax + 10$, then the value of a is :
 (a) 7 (b) -7 (c) 4 (d) -5
- (iv) The order of the matrix $\begin{bmatrix} 7 \\ 5 \\ -6 \end{bmatrix}$ is :
 (a) 1×3 (b) 3×1 (c) 3×0 (d) 1×1
- (v) The n th term of the AP 15, 10, 5, ... is :
 (a) $5n - 20$ (b) $20 - 5n$ (c) $20 + 5n$ (d) $10 + 5n$
- (vi) The reflection of the point P(1, -2) in the line $y = -1$ is :
 (a) (-3, -2) (b) (1, -4) (c) (1, 4) (d) (1, 0)
- (vii) In the figure, $AB \parallel PQ$, $CQ = 6$ cm, $CB = 14$ cm and $AB = 7$ cm. The length of PQ is :
 (a) 3 cm
 (b) 3.5 cm
 (c) 4 cm
 (d) 4.2 cm
- (viii) If $P(A)$ and $P(\text{not } A)$ are complementary events and $P(A) = 0.15$, then $P(\text{not } A) = ?$
 (a) 0.35 (b) 0.85 (c) 0.3 (d) cannot be determined
- (ix) If $25 - 4x \leq 16$, then, the smallest value of x , when $x \in \mathbb{R}$ is :
 (a) 2.25 (b) 2.5 (c) 3.5 (d) 3
- (x) The total surface area of the adjoining figure is:
 (a) 880 cm^2 (b) 110 cm^2
 (c) 440 cm^2 (d) 210 cm^2



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Huangqi Zhang



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Table of Contents Advanced Programme Mathematics Past Papers Grade 10

1. Understanding the eBook Advanced Programme Mathematics Past Papers Grade 10
 - The Rise of Digital Reading Advanced Programme Mathematics Past Papers Grade 10
 - Advantages of eBooks Over Traditional Books
2. Identifying Advanced Programme Mathematics Past Papers Grade 10
 - 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 Advanced Programme Mathematics Past Papers Grade 10
 - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced Programme Mathematics Past Papers Grade 10
 - Personalized Recommendations
 - Advanced Programme Mathematics Past Papers Grade 10 User Reviews and Ratings
 - Advanced Programme Mathematics Past Papers Grade 10 and Bestseller Lists
5. Accessing Advanced Programme Mathematics Past Papers Grade 10 Free and Paid eBooks
 - Advanced Programme Mathematics Past Papers Grade 10 Public Domain eBooks
 - Advanced Programme Mathematics Past Papers Grade 10 eBook Subscription Services
 - Advanced Programme Mathematics Past Papers Grade 10 Budget-Friendly Options

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