

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.

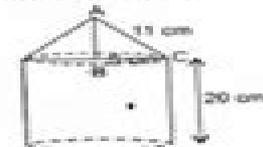
Omission of essential working will result in loss of marks.

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)  $1 \times 3$  (b)  $3 \times 1$  (c)  $3 \times 0$  (d)  $1 \times 1$
- (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)  $880 \text{ cm}^2$  (b)  $110 \text{ cm}^2$   
(c)  $440 \text{ cm}^2$  (d)  $210 \text{ cm}^2$



# Advanced Programme Mathematics Past Papers Grade 10

**Tao Wei**



**Advanced Programme Mathematics Past Papers Grade 10:**

This book delves into Advanced Programme Mathematics Past Papers Grade 10. Advanced Programme Mathematics Past Papers Grade 10 is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Advanced Programme Mathematics Past Papers Grade 10, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Advanced Programme Mathematics Past Papers Grade 10
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    - Chapter 3: Advanced Programme Mathematics Past Papers Grade 10 in Everyday Life
    - Chapter 4: Advanced Programme Mathematics Past Papers Grade 10 in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Advanced Programme Mathematics Past Papers Grade 10. This chapter will explore what Advanced Programme Mathematics Past Papers Grade 10 is, why Advanced Programme Mathematics Past Papers Grade 10 is vital, and how to effectively learn about Advanced Programme Mathematics Past Papers Grade 10.
  3. In chapter 2, this book will delve into the foundational concepts of Advanced Programme Mathematics Past Papers Grade 10. The second chapter will elucidate the essential principles that need to be understood to grasp Advanced Programme Mathematics Past Papers Grade 10 in its entirety.
  4. In chapter 3, this book will examine the practical applications of Advanced Programme Mathematics Past Papers Grade 10 in daily life. The third chapter will showcase real-world examples of how Advanced Programme Mathematics Past Papers Grade 10 can be effectively utilized in everyday scenarios.
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