

Time Allowed : 2½ hours

Max. Marks : 80

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.

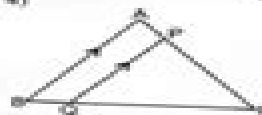
SECTION - A (40 Marks)

(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



Advanced Programme Mathematics Past Papers Grade 10

Xiang Xie



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Resources in Education ,1990 **Choosing Your A-Levels and Other Post-16 Options** Gary Woodward,2008-09-15

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Research in Education ,1972 **Popular Science Monthly and World Advance** ,1927 **The ETS Test Collection**

Catalog Educational Testing Service. Test Collection,1993 The major source of information on the availability of standardized tests Wilson Library BulletinCovers commercially available standardized tests and hard to locate research instruments *Report ...* New South Wales. Department of Education,1888 Announcements University of Chicago,1912

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New Zealand. Legislature. House of Representatives,1907 Publishers' circular and booksellers' record ,1876

Information Magazine ,2007 *Michigan School Moderator* ,1898 **Educational Times** ,1896 **Pitman's**

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