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

[15]

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

(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) 23   (b) 33   (c) 17   (d) 15

(iii) If $(x - 2)$ is a factor of $x^2 + mx + 10$, then the value of m 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 nth 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 ∥ 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(not A) are complementary events and P(A) = 0.15, then P(not A) = ?

(a) 0.35   (b) 0.85   (c) 0.3   (d) cannot be determined

(ix) If $25 - 4x \le 16$, then, the smallest value of x, when $x \in R$ is :

(a) 2.25   (b) 2.5   (c) 3.5   (d) 3

(x) The total surface area of the adjoining figure is:

(a) 880 cm²   (b) 110 cm²
(c) 440 cm²   (d) 210 cm²

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Walter Crosby Eells,Jesse Parker Bogue

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- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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