

Topic : Straight Lines

Type of Questions

(D) $\left(-\frac{1}{2}, \frac{5}{2}\right)$ (B) (3, 7) (C) (7, -2) (A) (2, 4)

If in triangle ABC, A = (1, 10), circumcentre $= \left(-\frac{1}{3}, \frac{2}{3}\right)$ and orthocentre $= \left(\frac{11}{3}, \frac{4}{3}\right)$ then the 2.

co-ordinates of mid-point of side opposite to A is : (A) (1, -11/3) (B) (1, 5) (C) (1, -3) (D) (1, 6)

3. Harmonic conjugate of the point (5, 13) with respect to (2, -5) and (3, 1) is

(A) $\left(1, \frac{13}{5}\right)$ (B) $\left(\frac{13}{5}, 1\right)$ (C) $\left(\frac{13}{5}, -\frac{7}{5}\right)$ (D) $\left(-\frac{7}{5}, \frac{13}{5}\right)$

An equilateral triangle has each of its sides of length 6 cm. If (x_1, y_1) ; $(x_2, y_2) \& (x_3, y_3)$ are its vertices, 4.

then the va (A) 192 (D) 972

5. ABC is a triangle. The coordinates of whose vertices are (-2, 4), (10, -2) and (-2, -8). G is the centroid of triangle ABC, then area of the triangle GBC is equal to (A) 26 (B) 36 (C) 24 (D) 39

One end of a thin straight elastic string is fixed at A (4, -1) and the other end B is at (1, 2) in the 6. unstretched condition. If the string is stretched to triple its length to the point C, then find the co-ordinates of this point .

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DPP No. 45

Total Marks: 19

Max. Time : 20 min.

M.M., Min.

15]

5]

[15,

[4,



Single choice Objective (no negative marking) Q.1,2,3,4,5

Subjective Questions (no negative marking) Q.6

dinates of the point C on AB	produced such

(3 marks, 3 min.)

(4 marks, 5 min.)

lue of the determinant	x ₁ x ₂ x ₃	У ₁ У2 У3	1 1 1	² is equal to :	
(B) 243				(C) 486	



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Answers Key

- **1.** (C)
- **2.** (A)
- **3.** (C)
- **4.** (D)
- **5.** (C)
- **6.** (-5, 8)

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