CLASS TEST

CO-ORDINATE GEOMETRY **FM-15**

1. The distance between the points (3, 7) and (8, 9) is: **1**

a) 11 units b) 12 units c) $\sqrt{29}$ units d) 13 units

2. P is a point on x-axis at a distance of 3 units from y-axis to its left. The coordinates of P is: **1**

a) (3, 0) b) (0, 3) c) (-3, 0) d) (0, -3)

a. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)

b. Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)

c. Assertion (A) is true and Reason (R) is false

d. Assertion (A) is false and Reason (R) is true

3. Assertion **(A)**: The point (0,4) lies on y-axis.
Reason **(R)**: The x-coordinate on the point on y-axis is zero. **1**

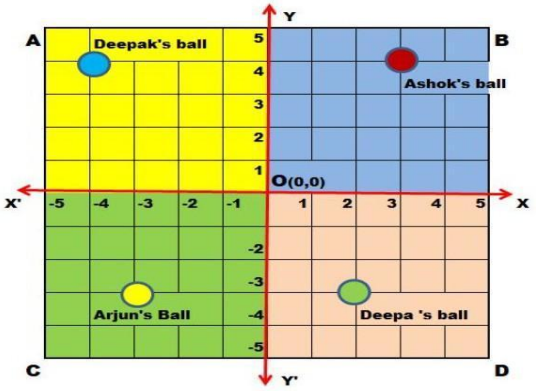
4. Assertion **(A)**: The value of y is 6, for which the distance between the points P (2, -3) and Q (10, y) is 10.
Reason **(R)**: Distance between two given points A (X_1, Y_1) and B (X_2, Y_2) is given by
$\sqrt{(X2 - X1)^2 + (Y2 - Y1)^2}$ **1**

5. Find the midpoint of the line segment with endpoints (1, 2) and (-5, 8). **2**

6. Find the distance between the points (-2, 4) and (6, -1) using the distance formula. **2**

7. Plot the points P (1, 0), Q (4, 0) and S (1, 3). Find the co-ordinates of the point R such that PQRS is a square. **3**

8. There is a square park ABCD in the middle of Amanora township in Pune. Four children Deepak, Ashok, Arjun and Deepa went to play with their balls. The colour of the ball of Ashok, Deepak, Arjun and Deepa are red, blue, yellow and green respectively.
All four children roll their ball from centre point O in the direction of XOY, X'OY, X'OY' and XOY'. Their balls stopped as shown in the above image.



i) What the line XOX' is called? **1**

ii) What will be the coordinate of Mirror Image of Deepa's ball across X axis? **1**

iii) Write the Coordinates of all 4 balls? **2**