ONE MARK TEST

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ENGLISH MEDIUM **LESSON – 5** **TEST - 3**

1 The slope of the line joining $(12,3)$, $(4,a)$ is $\frac{1}{8}$. The value of 'a' is
(A) 1 (B) 4 (C) -5 (D) 2

2 The equation of a line passing through the origin and perpendicular to the line $7x-3y+4=0$ is
(A) $7x-3y+4=0$ (B) $3x-7y+4=0$ (C) $3x+7y=0$ (D) $7x-3y=0$

3 A man walks near a wall, such that the distance between him and the wall is 10 units. Consider the wall to be the Y axis. The path travelled by the man is
(A) $x=10$ (B) $y=10$ (C) $x=0$ (D) $y=0$

4 Consider four straight lines
(i) l_1; $3y=4x+5$ (ii) l_2; $4y=3x-1$ (iii) l_3; $4y+3x=7$ (iv) l_4; $4x+3y=2$
Which of the following statement is true ?
(A) l_1 and l_2 are perpendicular (B) l_1 and l_4 are parallel
(C) l_2 and l_4 are perpendicular (D) l_2 and l_3 are parallel

5 The slope of the line which is perpendicular to a line joining the points $(0,0)$ and $(-8,8)$ is
(A) -1 (B) 1 (C) $\frac{1}{3}$ (D) -8

6 $(2, 1)$ is the point of intersection of two lines.
(A) $x-y-3=0;\ 3x-y-7=0$ (B) $x+y=3;\ 3x+y=7$
(C) $3x+y=3;\ x+y=7$ (D) $x+3y-3=0;\ x-y-7=0$

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7 If $(5,7)$, $(3,p)$ and $(6,6)$ are collinear, then the value of p is

(A) 3 (B) 6 (C) 9 (D) 12

8 When proving that a quadrilateral is a trapezium, it is necessary to show

(A) Two sides are parallel. (B) Two parallel and two non-parallel sides.

(C) Opposite sides are parallel. (D) All sides are of equal length.

9 If slope of the line PQ is $\frac{1}{\sqrt{3}}$ then slope of the perpendicular bisector of PQ is

(A) $\sqrt{3}$ (B) $-\sqrt{3}$ (C) $\frac{1}{\sqrt{3}}$ (D) 0

10 The point of intersection of $3x - y = 4$ and $x + y = 8$ is

(A) $(5,3)$ (B) $(2,4)$ (C) $(3,5)$ (D) $(4,4)$

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