Choose the correct option: –

1. Two lines perpendicular to the same line are

   (a) Parallel (b) intersecting (c) concurrent (d) none of these

2. How many lines can be drawn through given two points?

   (a) Only one (b) 2 (c) 4 (d) countless

3. Three or more points are collinear if they lie on the

   (a) Same surface (b) two lines (c) same line (d) none of these

4. Choose the false statement: –

   (a) Line AB is the same as line BA

   (b) Ray AB is the same as ray BA

   (c) Line segment AB is the same as line segment BA

5. A figure in which the initial and the end points coincide with each other is a _____figure.

   (a) Open (b) congruent (c) closed (d) none of these

Objective Type Questions

6. Number of lines which can be drawn passing through two given points is/are____.
7. A part of a plane inside a closed curve is called its_____.
8. The maximum number of points of intersection of three lines is____.
9. Least number of line segments required to make a polygon is____
10. A ray has two end points. (True/ False)

Short/ Long Answers

11. Draw a figure to show:

   (a) point M lies on line PQ. (b) Line A B and C D intersect at P.

   (c) Rays PR and PQ with same starting point P (d) Three parallel lines l, m, and p.

12. Illustrate each one of the following with a rough diagram

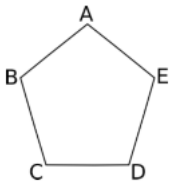
   (a) A closed curve which is not a polygon.

   (b) A polygon with 4 sides.

   (c) An open curve made up of only line segments.

   (d) A polygon with two sides.

13. Identify the angles in the given figure.

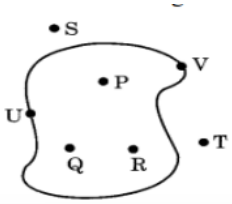


14. Identify the points which are:

   (i) in the interior

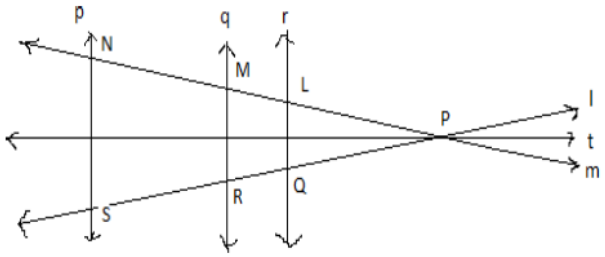
   (ii) in the exterior

   (iii) on the closed curve in the given figure.



15. How many lines can pass through
(i) one given point?
(ii) two given points?
(iii) three non – collinear points

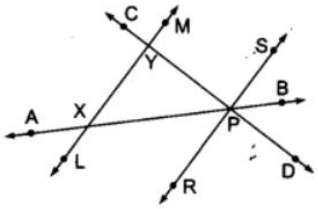
16. **Case Based Question**



(a) Collinear Points
(b) Lines intersecting at P
(c) Two pairs of parallel lines
(d) Lines passing through both the points M and R .
e) a pair of lines intersecting at L
f) three concurrent lines with their point of concurrency.

17. Source Based Question

Look the picture and answer them.



(a) The lines intersecting at P are:_____
(b) The concurrent lines are:_____
(c) Lines passing through A :_____
(d) Number of lines passing through point X are_____.