

# Mathematics

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(Chapter 4) (Basic Geometrical Ideas) (Practice Test - 2)

(Class VI)

Time Allowed: 1 Hour 15 Minutes

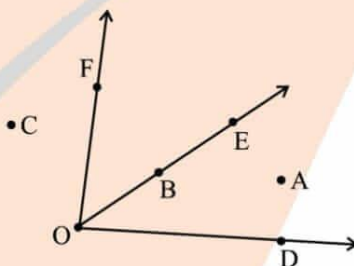
Maximum Marks: 25

## General Instructions:

- This question paper contains four sections – A, B, C, and D. Each part is compulsory.
- Section – A has 5 MCQ of one mark each.
- Section – B has 3 questions of two marks each.
- Section – C has 3 questions of three marks each.
- Section – D has 2 questions of five marks each, attempt any 1 out of 2.
- There is no negative marking.

### Section – A

1. In the given diagram, name the points in the exterior of  $\angle EOF$ .



- (A) O                      (B) C                      (C) F                      (D) E

2. Mark a point on a sheet of paper and draw a line passing through it. How many lines can you draw through this point?

- (A) 3                      (B) 5                      (C) 1                      (D) Unlimited

3. By lines in geometry, we mean only straight lines.

- (A) True                      (B) False                      (C) Undetermined

4. There cannot be a horizontal line in a vertical plane.

- (A) True                      (B) False                      (C) Undetermined

5. All lines in a horizontal plane are horizontal.

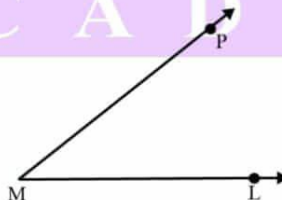
- (A) True                      (B) False                      (C) Undetermined

### Section – B

6. Draw a rough sketch of a triangle ABC. Mark a point P in its interior and a point Q in its exterior. Is the point A in its exterior or in its interior?

7. The diameter of a circle is 14 cm, find its radius.

8. Write the arms and the vertex of  $\angle LMP$



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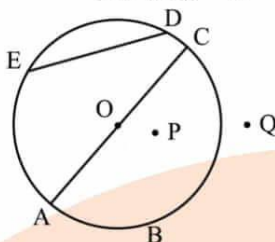
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### Section - C

9. From the figure, identify:

- (i) a point in the exterior
- (ii) a sector
- (iii) a segment



10. Which of the following statements are true:

- (i) The vertex of an angle lies in its interior.
- (ii) The vertex of an angle lies in its exterior.
- (iii) The vertex of an angle lies on it.

11. Classify the following angles as acute, obtuse, straight, right, zero and complete angle:

- (i)  $180^\circ$
- (ii)  $89.5^\circ$
- (iii)  $30^\circ$
- (iv)  $90^\circ$
- (v)  $179^\circ$
- (vi)  $360^\circ$

### Section - D

12. Give the correct matching of the statements of Column A and Column B.

Column A

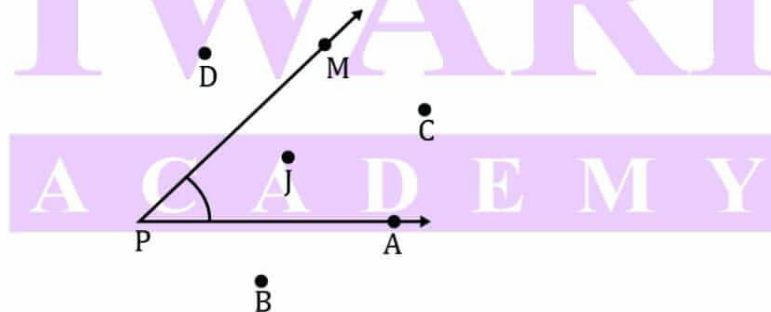
- (i) Points are collinear
- (ii) Line is completely known
- (iii) Two lines in a plan
- (iv) Relations between points and lines
- (v) Three non-collinear points
- (vi) A plane extends
- (vii) Indefinite number of lines
- (viii) Point, line and plane are

Column B

- (a) may be parallel or intersecting
- (b) are undefined terms in geometry
- (c) if they lie on the same line
- (d) can pass through a point
- (e) determine a plane
- (f) are called incidence properties
- (g) if two points are given
- (h) indefinitely in all directions

13. list the points which are:

- (i) in the interior of  $\angle P$
- (ii) in the exterior of  $\angle P$  and
- (iii) lie on  $\angle P$ .



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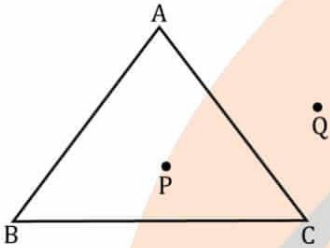
Answers

## Section - A

1. C
2. Unlimited
3. True
4. False
5. False

## Section - B

6. Point A lies on the given triangle ABC. It lies neither in interior nor exterior.



7. 7 cm
8. ML and MP

## Section - C

9. (i) A point in the exterior is Q  
(ii) A sector is AOB  
(iii) A segment is ED
10. False, False, True
11. (i) Straight Angle  
(ii) Acute Angle  
(i) Acute Angle  
(ii) Right Angle  
(iii) Obtuse Angle  
(iv) Complete Angle

## Section - D

12. (i) - (c), (ii) - (g), (iii) - (a), (iv) - (f), (v) - (e), (vi) - (h), (vii) - (d), (viii) - (b)
13. (i) J and C  
(ii) B and D  
(iii) A, P and M

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