

Mathematics

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

(Class VI)

Time Allowed: 1 Hour 15 Minutes

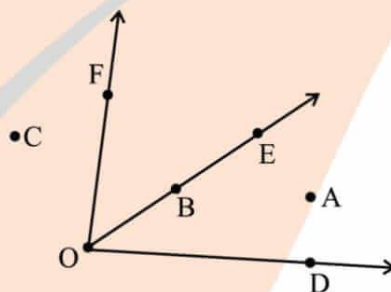
Maximum Marks: 25

General Instructions:

- This question paper contains four sections – A, B, C, 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) A (C) F (D) E

2. There are a number of ways by which we can visualize a portion of a line. State whether the following represent a portion of a line or not: The line thread by which a spider lowers itself.

- (A) Yes (B) No (C) Undetermined

3. If A, B, C and D are collinear points D, P and Q are collinear, then points A, B, C, D, P and Q are always collinear.

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

4. Two different lines can be drawn passing through two given points.

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

5. Through a given point only one line can be drawn.

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

Section – B

6. Draw rough diagrams to illustrate the Open curve:

7. How many lines can pass through

- (i) One given point?
(ii) Two given points?

8. Say true or false:

- (i) Two diameters of a circle will necessarily intersect.
(ii) The centre of a circle is always in its interior.

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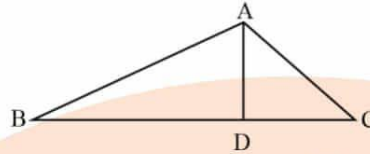
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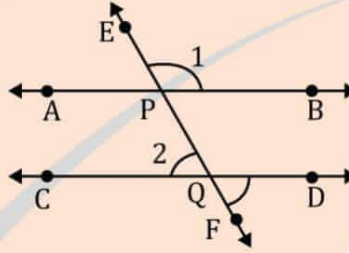
Section - C

9. (i) Identify three triangles in the figure.
(ii) Write the names of seven angles.



10. Write another name for:

- (i) $\angle 1$
(ii) $\angle 2$
(iii) $\angle 3$



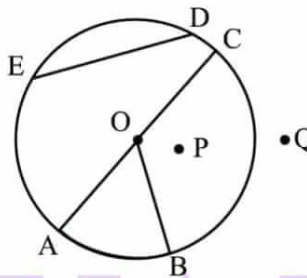
11. Classify the following angles as acute, obtuse, straight, right, zero and complete angle:

- (i) 118°
(ii) 29°
(iii) 145°
(iv) 165°
(v) 0°
(vi) 75°

Section - D

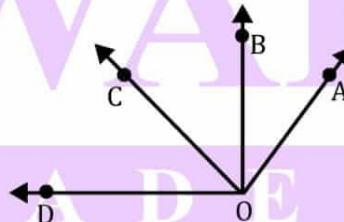
12. From the figure, identify:

- (i) the centre of circle
(ii) three radii
(iii) a diameter
(iv) a chord
(v) two points in the interior



13. Which of the following statements are true:

- (i) Point B is the interior of $\angle AOB$.
(ii) Point B is the interior of $\angle AOC$.
(iii) Point A is the interior of $\angle AOD$.
(iv) Point C is the exterior of $\angle AOB$.
(v) Point D is the exterior of $\angle AOC$.



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Answers

Section - A

1. A
2. Yes
3. False
4. True
5. False

Section - B

6. Try yourself.
7. (i) Countless
(ii) One
8. (i) True
(iii) True

Section - C

9. (i) $\triangle ABD, \triangle ACB, \triangle ADC$
(ii) $\angle BAC, \angle BAD, \angle CAD, \angle ADB, \angle ADC, \angle ABC, \angle ACB$
10. (i) $\angle EPB$ or $\angle BPE$
(ii) $\angle CQP$ or $\angle PQC$
(iii) $\angle DQF$ or $\angle FQD$
11. (i) obtuse angle
(ii) acute angle
(iii) obtuse angle
(iv) obtuse angle
(v) zero angle
(vi) acute angle

Section - D

12. (i) The centre of circle is O
(ii) $\overline{OA}, \overline{OB}, \overline{OC}$
(iii) \overline{AC}
(iv) \overline{ED}
(v) O and P
13. False, True, False, True, True

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