Mathematics
(Chapter 4) (Basic Geometrical Ideas) (Practice Test - 1)
(Class VI)

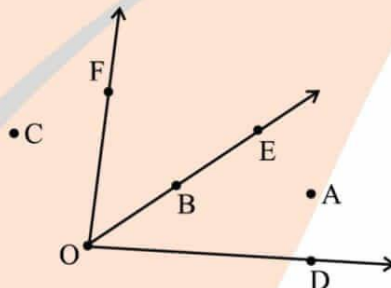**Time Allowed: 1 Hour 15 Minutes**   **Maximum Marks: 25**

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 interior of ∠DOE.

(A) A   (B) C   (C) F   (D) B

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:
A piece of elastic stretched to the breaking point.
(A) Yes   (B) No   (C) Undetermined

3. Can 3 points be non-coplanar?
(A) Yes   (B) No   (C) Undetermined

4. A page of a book is a physical example of a ....
(A) Plane   (B) Surface   (C) Parallel line   (D) Coplanar lines

5. Point has a size because we can see it as a thick dot on paper.
(A) True   (B) False   (C) Undetermined

Section – B

6. Name the line given in all possible (twelve) ways, choosing only two letters at a time from the four given.

7. Draw rough diagrams to illustrate the closed curve:

8. Draw a rough sketch of a quadrilateral PQRS. Draw its diagonals. Name them. Is the meeting point of the diagonals in the interior or exterior of the quadrilateral?
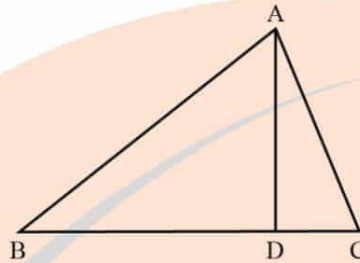
Section – C

9. In the following figure:
(i) Write the names of six line segments.
(ii) Which two triangles have ∠B as common?

10. Write another name for:
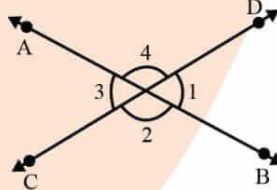(i) ∠1   (ii) ∠2   (iii) ∠3   (iv) ∠4

11. Using only a ruler, draw an acute angle, a right angle and an obtuse angle and name them.

Section – D

12. Classify the following curves as (i) Open or (ii) Closed.
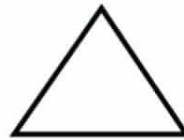

(a)   (b)   (c)   (d)   (e)

13. Draw a rough sketch of a quadrilateral KLMN. State,
(i)   two pairs of adjacent sides
(ii)   two pairs of adjacent angles
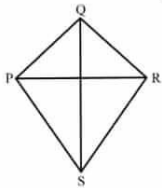
Answers

Section – A

1. A
2. Yes
3. No
4. Plane
5. False

Section - B

6. AB, AC, AD, BA, BC, BD, CA, CB, CD, DA, DB, DC
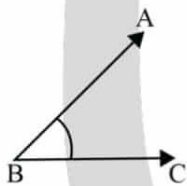
7.

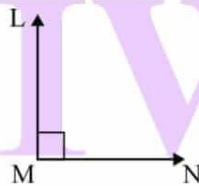8. PR and QS are the diagonals. They meet at point O which is in the interior of the quadrilateral.
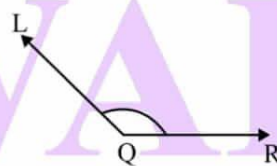

Section – C

9. (i) $\overline{AB}, \overline{AC}, \overline{BC}, \overline{AD}, \overline{BD}, \overline{DC}$

  (ii) ∠ABD and ∠ABC are triangles which have ∠B as common.

10. (i) ∠ BOD or ∠ DOB

   (ii) ∠ BOC or ∠ COB

   (iii) ∠ COA or ∠ AOC

   (iv) ∠ AOD or ∠ DOA

11.

Acute angle ∠ABC   Right angle ∠LMN   Obtuse angle ∠LQR

Section – D

12. Open, close, Open, Close, Close

13. (i) $\overline{KL}, \overline{KN}$ and $\overline{NM}, \overline{ML}$ or $\overline{KL}, \overline{LM}$ and $\overline{NM}, \overline{NK}$

∠K, ∠L and ∠M, ∠N or ∠K, ∠L and ∠L, ∠M