## **BasicGeometrical Ideas**

Question 1. A triangle has: (a) one element (b) two elements (c) 6 elements (d) none of these

Answer: (c) 6 elements

Question 2.
A point where three or more lines meet is called:
(a) point of concurrence
(b) meeting point
(c) collinear point
(d) non-collinear point

Answer: (a) point of concurrence

Question 3.What are used to represent points?(a) Numerals.(b) Capital letters of alphabet.(c) Lower case letters of alphabet.(d) All of the above

Answer: (b) Capital letters of alphabet.

Question 4. Which instrument is used to compare two line segments? (a) Compasses (b) A divider (c) Set squares(d) A protractor

Answer: (b) A divider

Question 5.

A \_\_\_\_\_\_ of a circle is a line segment joining any two points on the circle.

(a) chord

(b) diameter

(c) radius

(d) None of these

Answer: (a) chord

Question 6. A quadrilateral has: (a) one vertex (b) two vertices (c) three vertices (d) four vertices

Answer: (d) four vertices

Question 7. The meeting point of a pair of adjacent sides of a polygon is called its: (a) vertex (b) diagonal (c) adjacent angles (d) none of these

Answer: (a) vertex

Question 8. An angle is made up of two \_\_\_\_\_\_ starting from common end point.

(a) rays

(b) vertices

(c) lines

(d) points

Answer: (a) rays

Question 9.

If two lines intersects each other then the common point between them is known as point of

(a) concurrence
(b) intersection
(c) vertex
(d) contact

Answer: (b) intersection

Question 10.

What is a set of points extending infinitely in all directions on the same flat surface called?
(a) A line
(b) A plane
(c) Ray
(d) A point

Answer: (b) A plane

Question 11. A quadrilateral has: (a) one diagonal (b) two diagonals (c) three diagonals (d) four diagonals

Answer: (b) two diagonals

Question 12. Three or more points are collinear if they lie on the: (a) same line (b) two lines (c) same surface (d) none of these

Answer: (a) same line

Question 13.

Flat surface in which two points are joined by using straight line is classified as

(a) line(b) plane(c) ray(d) intersecting line

Answer: (b) plane

Question 14. What is the number of end points of a line? (a) Zero (b) Two (c) One (d) Three

Answer: (a) Zero

Question 15. Angle which is less than 90° is called (a) reflex angle (b) obtuse angle (c) acute angle (d) right angle

Answer: (c) acute angle

Question 16. The maximum number of points of intersection of three lines is: (a) one (b) two (c) three (d) four

Answer: (c) three

Question 17. A polygon having four sides is called: (a) triangle (b) quadrilateral (c) circle (d) none of these Answer: (b) quadrilateral

Question 18. The centre of a circle: (a) lies in its interior (b) lies in its exterior (c) lies on the circle (d) none of these

Answer: (a) lies in its interior

Question 19.
Any line segment can be formed by joining
(a) two points
(b) three points
(c) four points
(d) more than three points

Answer: (a) two points

Question 20. Angle which is equal to 90° is classified as (a) right angle (b) obtuse angle (c) acute angle (d) reflex angle

Answer: (a) right angle

Question 21. A triangle has: (a) one vertex (b) two vertices (c) three vertices (d) none of these

Answer: (c) three vertices

Question 22. A ray has: (a) one end point (b) two end points (c) three end points (d) none of these

Answer: (a) one end point

Question 23. Out of following, one angle which is obtuse is (a)  $\frac{11}{21}$  of a right angle (b)  $\frac{8}{20}$  of a complete rotation (c)  $\frac{11}{21}$  of a complete rotation (d)  $\frac{8}{20}$  of a right angle

Answer: (b)  $\frac{8}{20}$  of a complete rotation

Question 24. Two lines meeting at a point are called \_\_\_\_\_\_. (a) intersecting lines (b) concurrent lines (c) parallel line (d) None of these

Answer: (a) intersecting lines

Question 25. A triangle has: (a) one median (b) two medians (c) three medians (d) four medians

Answer: (c) three medians

Question 26. A quadrilateral is a polygon having: (a) two sides(b) three sides(c) four sides(d) none of these

Answer: (c) four sides

Question 27. Two distinct lines meeting at a points are called \_\_\_\_\_\_. (a) intersecting lines (b) parallel lines (c) collinear lines (d) None of these

Answer: (a) intersecting lines

Question 28. Out of following options, two angles that are together classified as complementary angles are (a) 120° and 60° (b) 50° and 30° (c) 65° and 25° (d) 70° and 30°

Answer: (c)  $65^{\circ}$  and  $25^{\circ}$ 

Question 29. A triangle has: (a) one side (b) two sides (c) three sides (d) four sides

Answer: (c) three sides

Question 30. A circle is a: (a) polygon (b) an open curve (c) a closed curve (d) none of these Answer: (c) a closed curve

Question 31.

If two angles are said to be supplementary angles and one of angle is of 122° then other angle is of (a) 35° (b) 32°

(c) 60°

(d) 58°

Answer: (d) 58°

Question 32.

How many lines pass through two given points?

(a) one

(b) two

(c) three

(d) many

Answer: (a) one

Question 33.

The minimum number of points of intersection of three lines is:

(a) zero

(b) one

(c) two

(d) three

Answer: (a) zero

Question 34. A line has: (a) fixed length (b) infinite length (c) 100 cm length (d) none of these

Answer: (b) infinite length

Question 35. Two non-parallel lines always intersect: (a) in a line (b) in a point (c) in two lines (d) none of these

Answer: (b) in a point

Question 36. Angle which is less than 360° and larger than 180° is classified as (a) acute angle (b) obtuse angle (c) reflex angle (d) right angle

Answer: (c) reflex angle

Question 37. Three or more points lying on the same line are known as \_\_\_\_\_\_ points. (a) collinear (b) intersecting (c) non-collinear (d) None of these

Answer: (a) collinear

Question 38. Through one given point: (a) one line can be drawn (b) two lines can be drawn (c) many lines can be drawn (d) none of these

Answer: (c) many lines can be drawn

Question 39. A point has: (a) infinite length (b) 1 mm length (c) no length(d) all of these

Answer: (c) no length

Question 40.

How many lines pass through one given point?

(a) Three

(b) One

(c) Countless

(d) Two

Answer: (c) Countless

Question 41. What is a set of points which extend infinitely in both directions called? (a) A line (b) A plane (c) A line segment (d) A point

Answer: (a) A line

Question 42. A quadrilateral has: (a) one side (b) two sides (c) three sides (d) four sides

Answer: (d) four sides

Question 43. An angle has: (a) one vertex and one arm (b) one vertex and two. arms (c) two vertices and two arms (d) none of these

Answer: (b) one vertex and two. arms

Question 44. A flat surface which extends indefinitely in all directions is called (a) plane (b) lines (c) point (d) line segment	
Answer: (a) plane	
Fill in the blanks:	
1. A triangle has medians.	
Answer: three	
2. Radius is of the diameter.	
Answer: half	
3. A quadrilateral has diagonals.	
Answer: two	
4. All the radii of a circle are	
Answer: equal	
5. How many chords of a circle are there?	
Answer: infinite	
6. A point equidistant from all the points on a circle is called of the circle. Answer: center	-
7. The diameter of a circle is the chord of the circle.	-

## Answer: longest

8. Name all the sides of a polygon ABCD
Answer: AB, BC, CD, DA
9. A quadrilateral has vertices.
Answer: four
10. How many centres does a circle have?
Answer: one
11. A triangle has vertices.
Answer: three
12. The distance between any two points on the circle is called of the circle.
Answer: chord
13. A triangle has sides.
Answer: three
14. A quadrilateral has sides.
Answer: four
Match the following:

1.

(a) A utaligit	(i) Line segment joining two points on the circle

(b) A quadrilateral	(ii) Has one center
(c) A chord of a circle	(iii) Has three sides
(d) Diameter of a circle	(iv) Has four sides
(e) A circle	(v) Longest chord

Answer:

(a) A triangle	(iii) Has three sides
(b) A quadrilateral	(iv) Has four sides
(c) A chord of a circle	(i) Line segment joining two points on the circle
(d) Diameter of a circle	(v) Longest chord
(e) A circle	(ii) Has one center