# Downloaded from www.studiestoday.com 5. Introduction to Euclids Geometry 

Q 1 Write Ecluid's definition of straight line.

Mark (1)

Q 2 State true of false : Two distinct lines intersect at more than one point.
Mark (1)

Q 3 Fill in the blank:
A $\qquad$ is that which has no part.

Mark (1)

Q 4 How many points a line segment can have?
Mark (1)
Q 5 State true or false: Given two distinct points, there are two lines which passes through them.
Mark (1)
Q 6 Fill in the blank :
Three or more lines are said to be $\qquad$ if their common point lies on them.

Mark (1)

Q 7 According to Euclid, Name of geometrical figure which has only length and breadth.
Mark (1)
Q 8 State two equivalent versions of Ecluid's fifth postulate.

Marks (2)
Q 9 If $A, B$ and $C$ are three points on a line, and $B$ lies between $A$ and $C$ then prove that $A B+B C=A C$.
Marks (2)
Q 10 If a point $C$ lies between two points $A$ and $B$ such that $A C=B C$, then prove that $A C=(1 / 2) A B$.
Marks (2)
Q 11 Which axiom is related to comparison of things According to Euclid's axiom?
Marks (2)
Q 12 If a point $C$ lies between two points $A$ and $B$ such that $A C=B C$, then find the relation between $B C$ and $A B$.
Marks (2)
Q 13 As per Euclid's axiom, 'If equals are added to equals, explain with examples.
Marks (2)

Q 14 What are the types of the boundaries of the surfaces?

## Marks (2)

Q 15 Which proof was given by the great mathematician Thales about circle?

## Marks (2)

Q 16 Which type of the the shape of altars used for household rituals in the Vedic period?

## Marks (2)

Q 17 In Fig., if $A C=B D$ then prove that $A B=C D$.


Marks (3)

Q 18 If $\mathrm{PS}=\mathrm{RT}$ as shown in the figure, then what will be the value of ST ?


Marks (3)
Q 19 Define the following according to book 'Element" by Euclid:
(i) Surface (ii) Point (iii)Straight line (iv) Line.

Marks (3)
Q 20 What is Playfair's Axiom?
Marks (3)
Q 21 What are two equivalent versions of Euclid's fifth postulate?
Marks (3)
Q 22 Define Postulate according to Euclid.
Marks (3)
Q 23 State Euclid's five postulates.
Marks (4)
Q 24 Define the following terms:
(i) Intersecting lines
(ii) Parallel lines

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(iii) Line segment
(iV) Collinear points.

Marks (4)
Q 25 Define the following terms:
(i) Axiom (ii) Theorem Marks (4)

Q 26 Give seven Euclid's axioms.
Marks (4)
Q 27 Mention Five postulates of Eulid.
Marks (4)
Q 28 Prove that an equilateral triangle can be constructed on any given line segment. Marks (4)
Q 29 Give the definition for each of the following terms:-
(i) Parallel lines, (ii) Perpendicular lines, (iii) Line segment, (iv) Radius of a circle,(v)Square.

Marks (4)
Most Important Questions

Q 1 Define the following terms
a) Point
b) Line
c) Line Segment

Q 2 Explain the following terms :
a) Concurrent lines
b) Collinear points
c) Parallel lines
d) Intersecting lines

Q 3 How many lines can pass through a given point?
Q 4 How many lines can pass through two given points?
Q 5 How many line segments can pass through three collinear point $\mathrm{A}, \mathrm{B}, \mathrm{C}$ ?
Q 6 State True or false
a) Two lines intersect at a point.
b) A line segment has a fixed length.
c) A ray has a fixed length.
d) Only one line can pass through a given point.
e) Two lines are coincident if they have only one point in common.

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Q 7 Fill in the blanks:
a)Two distinct points in a plane determine a. ...line.
b) Given a line and a point, which is not on the line, there is $\qquad$ line, which passes through the given point and is $\qquad$ to the given line.
c) Whole of anything is $\qquad$ to the sum of its parts and $\qquad$ than any one of them.
d) If equals are subtracted from wholes the remainders are $\qquad$

Q 8 State the two equivalent version of Euclid's fifth postulate.

Q 9 If $C$ is a point which lies between two points $A$ and $B$ such that $A C=B C$, then prove that $A C=1 / 2 A B$. Explain by drawing the line.

Q 10 Prove that the mid-point of any line segment is unique.

