

IITJEE Foundation Practice paper

**INTRODUCTION TO EUCLIDS GEOMETRY**

class-9-Mathematics    Number of Questions: 25

For Answers and Solutions, Go to [www.micromerits.com](http://www.micromerits.com)

**1**

How many common points do two distinct lines in a plane have ?

- Four    Three    One    Two

**2**

Two distinct parallel lines have how many common points?

- One    Two    None    Three

**3**

How many are the total number of propositions in the Euclid's Elements?

- 462    465    460    450

**4**

Which of the following needs a proof?

- Theorem    Axiom    Postulae    None of these

**5**

What is the shape of the side-faces of a pyramid?

- Square    Triangle    Polygon    Quadrilateral

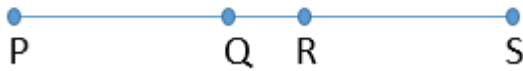
**6**

How many lines can pass through a given point?

- 2    1    3    infinite

7

In the given figure below if  $PR = QS$  then what is the measure of  $PQ$  ?



- PS    QS    RS RS    PR

8

How many dimensions does a solid has?

- 3    2    1    0

9

When two planes intersect each other, the outcome will be?

- Plane    Angle    Point    Straight line

10

A surface is that which has

- Length    Breadth    Length & Breadth    Length & Height

11

Euclid stated that all right angles are equal to each other in the form of

- A postulate    A definition    Axiom    None of these

12

Who worked out to find Area of Isosceles triangle?

- Pythagoras    Aryabhata    Newton    Ramanujan

13

How many definitions written by Euclid in Euclid's Geometry?

- 20    21    22    23

14

A sentence which is 'true or false' but not 'both' is called

- Amion  Statement  Point  None of these

15

Lines are parallel 'if they do not intersect' is stated in the form of

- An Axion  Proof  A definition  Postulate

16

The number of line segments determined by three non-collinear points is \_\_\_\_\_

- 2  3  4  0

17

The number of circles determined by three non-collinear points is \_\_\_\_\_

- Only one  Two  Three  Four

18

As for Euclid's axioms, things which are \_\_\_\_ of the same things are equal to one another

- Parallel  Not Equal  Halfs  None of these

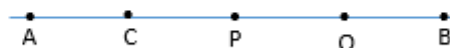
19

If a point A lies on B and C which of the following is true?

- $BC = \frac{1}{2} AC$    $AB + AC = BC$    $BC = \frac{1}{2} AB$    $BA = BC$

20

If  $AC = PQ$  and  $CP = BQ$  then mid point of line segment AB?



- B  C  P P  Q

**21**

Which of the following is a Pythagorean triplets ?

- 5, 12, 13    6, 7, 8    5, 4, 7    10, 11, 12

**22**

A conjecture that is proved to be true is called a \_\_\_\_\_

- Postulate    Theorem    Axiom    None of these

**23**

If A, B, C are three collinear points on a line B lies between A and C, then \_\_\_\_\_

- $AC - AB = BC$      $AC = AB$      $AB = 2AC$      $AC + AB = BC$

**24**

If C is the mid point of the line segment AB, D and E are mid points of the segments AC and BC, then find the length of AB

- 4 BE    4 AC    4 BC    CE

**25**

In Indus valley civilisation (about 300 BC) what were the dimensions of the bricks used for construction work.

- 1:4:2    4:2:1    4:4:1    4:3:2

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