

**GIRLS' HIGH SCHOOL & COLLEGE, PRAYAGRAJ**

**SESSION: 2020-2021**

**CLASS: 6 (A, B, C, D, E & F)**

**SUBJECT: MATHS**

**ASSIGNMENT-2**

**Instructions for the E learn assignment :** The parents to ensure that their ward watches the video instructions for this assignment by clicking on the given link- <https://youtu.be/Lobygw4iA1I>

She should revise the lesson given in the book and work on the given assignment .The completed assignment is to be downloaded and filed/pasted in the subject file /copy and kept ready for the submission. The day date and procedure of submission shall be notified later.

**TOPIC: Fundamental Concepts of Geometry**

**SOLVE THE FOLLOWING:**

**Question 1.**

State, true or false, if false, correct the statement.

- (i) A dot has width but no length.
- (ii) A ray has an infinite length only on one side of it.
- (iii) A line segment PQ is written as  $\overleftrightarrow{PQ}$
- (iv) Three points are said to be collinear, if they lie in the same plane.
- (v) Three or more points all lying in the same line are called collinear points.

**Question 2.**

Write how many lines can be drawn through:

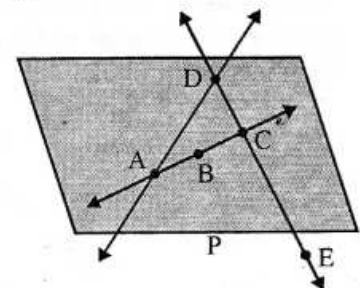
- (i) a given point?
- (ii) two given fixed points?
- (iii) three collinear points?
- (iv) three non-collinear points?

**Question 3.**

The shaded region of the given figure shows a plane

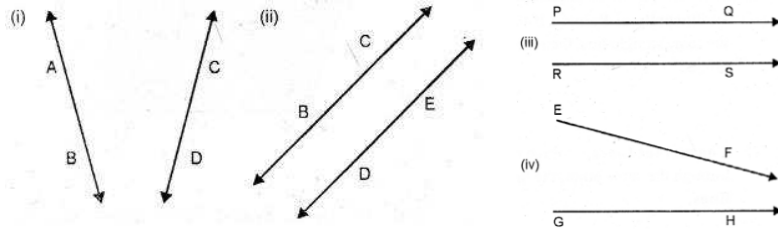
Name:

- (i) three collinear points.
- (ii) three non-collinear points.
- (iii) a pair of intersecting lines.



**Question 4:**

State, whether the following pairs of lines or rays appear to be parallel or intersecting .



**Question 5:**

Give two examples, from your surroundings, for each of the following:

- (i) points
- (ii) line segments
- (iii) plane surfaces
- (iv) curved surfaces.

**Question 6:**

Under what condition will two straight lines, in the same plane, have :

- (i) No point in common.
- (ii) Only one point in common.
- (iii) An infinite number of points in common.
- (iv) If possible draw diagrams in support of your answer.

**Question 7:**

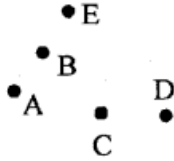
State true-or false, if false give the correct statement:

- (i) A line has a countable number of points in it.
- (ii) Only one line can pass through a given point.
- (iii) The intersection of two planes is a straight line .

**Question 8:**

Use a ruler and find whether the following points are collinear or not:

- (i) D, A and C
- (ii) A, B and C
- (iii) A, B and E
- (iv) B, C and E



**Question 9:**

The adjoining diagram shows a line segment AB. Draw diagrams to represent:

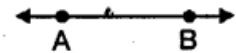
- (i) ray AB i.e.  $\overrightarrow{AB}$
- (ii) line AB i.e.  $\overleftrightarrow{AB}$



**Question 10:**

The adjoining diagram shows a line AB. Draw diagram to represent:

- (i) Line segment AB .



**END**