1. Do we have distance formula in 3-D geometry also?
a) True
b) False

2. Find the distance between two points (5, 6, 7) and (2, 6, 3).
a) 3 units
b) 0 units
c) 4 units
d) 5 units

3. The points A (3, 2, 1), B (5, 3, -2) and C (-1, 0, 7) are collinear.
a) True
b) False

4. The three points A (1, 2, 3), B (3, 1, 2), C (2, 3, 1) form _____
a) equilateral triangle
b) right angled triangle
c) isosceles triangle
d) right angled isosceles triangle

5. The three points A (3, 0, 3), B (5, 3, 2), C (6, 5, 5) form _____
a) equilateral triangle
b) right angled triangle
c) isosceles triangle
d) right angled isosceles triangle

6. The three points A (7, 0, 10), B (6, -1, 6), C (9, -4, 6) form _____
a) equilateral triangle
b) right angled triangle
c) isosceles triangle
d) right angled isosceles triangle

7. The points A (1, 2, -1), B (5, -2, 1), C (8, -7, 4), D (4, -3, 2) form_____
a) trapezium
b) rhombus
c) square
d) parallelogram

8. Do we have distance formula in 3-D geometry also?
a) True
b) False

9. Find the distance between two points (5, 6, 7) and (2, 6, 3).
a) 3 units
b) 0 units
c) 4 units
d) 5 units

10. The points A (3, 2, 1), B (5, 3, -2) and C (-1, 0, 7) are collinear.
a) True
b) False

11. The three points A (1, 2, 3), B (3, 1, 2), C (2, 3, 1) form _____
a) equilateral triangle
b) right angled triangle
c) isosceles triangle
d) right angled isosceles triangle

12. The three points A (3, 0, 3), B (5, 3, 2), C (6, 5, 5) form _____
a) equilateral triangle
b) right angled triangle
c) isosceles triangle
d) right angled isosceles triangle

13. The three points A (7, 0, 10), B (6, -1, 6), C (9, -4, 6) form _____
a) equilateral triangle
b) right angled triangle
c) isosceles triangle
d) right angled isosceles triangle

14. The points A (1, 2, -1), B (5, -2, 1), C (8, -7, 4), D (4, -3, 2) form_____
a) trapezium
b) rhombus
c) square
d) parallelogram

15. Find midpoint of (1, 4, 6) and (5, 8, 10).
a) (6, 12, 8)
b) (3, 6, 8)
c) (1, 9, 12)
d) (4, 9, 12)

16. The coordinates of a point dividing the line segment joining (1, 2, 3) and (4, 5, 6) internally in the ratio 2:1 is _____
a) (3, 4, 5)
b) (5, 4, 3)
c) (5, 3, 4)
d) (4, 5, 3)

17. In which ratio (3, 4, 5) divides the line segment joining (1, 2, 3) and (4, 5, 6) internally?
a) 1:2
b) 2:1
c) 3:4
d) 4:3

18. The coordinates of a point dividing the line segment joining (1, 2, 3) and (4, 5, 6) externally in the ratio 2:1 is _____
a) (4, 5, 6)
b) (6, 8, 9)
c) (7, 8, 9)
d) (8, 6, 4)

19. If coordinates of vertices of a triangle are (7, 6, 4), (5, 4, 6), (9, 5, 8), find the coordinates of centroid of the triangle.
a) (7, 5, 3)
b) (7, 3, 5)
c) (5, 3, 7)
d) (3, 5, 7)

20. The ratio in which line joining (1, 2, 3) and (4, 5, 6) divide X-Y plane is _____
a) 2
b) -2
c) 1/2
d) -1/2

**ANSWERS-1.(A) 2.(D) 3.(A) 4.(A) 5.(C) 6.(D) 7.(D) 8.(A) 9.(D) 10.(A)**

**11.(A) 12.(C) 13.(D) 14.(D) 15.(B) 16.(A) 17.(B) 18.(C) 19.(A) 20.(D)**