Department of Mechanical Engineering

GE8152 ENGINEERING GRAPHICS

Multiple Choice Questions

UNIT II Projection of Points, Lines and Plane Surface

1. Two points are placed in 1st quadrant of projection planes such that the line joining the points is perpendicular to profile plane the side view and top view will be _____
a) single point, two points
b) two points, single point
c) single point, single point
d) two points, two points

Answer: a

2. A point is 5 units away from the vertical plane and 4 units away from profile plane and 3 units away from horizontal plane in 1st quadrant then the projections are drawn on paper the distance between the front view and top view of point is _____
a) 7 units
b) 8 units
c) 9 units
d) 5 units

Answer: b

3. A point is 8 units away from the vertical plane and 2 units away from profile plane and 4 units away from horizontal plane in 1st quadrant then the projections are drawn on paper the distance between the side view and front view of point is _____
a) 12 units
b) 6 units
c) 10 units
d) 8 units

Answer: c

4. A point is 2 units away from the vertical plane and 3 units away from profile plane and 7 units away from horizontal plane in 1st quadrant then the projections are drawn on paper the distance between the front view and side view of point is _____
a) 10
b) 5
c) 9
d) 7

Answer: b

5. A point is 20 units away from the vertical plane and 12 units away from profile plane and 9 units away from horizontal plane in 1st quadrant then the projections are drawn on paper the distance between the side view and front view of point is _____
a) 29 units
b) 21 units
c) 32 units

d) 11 units

Answer: c

6. A point is 2 units away from the vertical plane and 3 units away from profile plane and 7 units away from horizontal plane in 1st quadrant then the projections are drawn on paper the shortest distance from top view and side view of point is _____
a) 10.29
b) 5.14
c) 9
d) 7

Answer: c

7. A point is 20 units away from the vertical plane and 12 units away from profile plane and 9 units away from horizontal plane in 1st quadrant then the projections are drawn on paper the distance between the side view and top view of point is _____
a) 29 units
b) 21 units
c) 35.8 units
d) 17.9 units

Answer: c

8. A point is 15 units away from the vertical plane and 12 units away from profile plane and horizontal plane in 1st quadrant then the projections are drawn on paper the distance between the front view and top view of point is _____
a) 27
b) 15
c) 12
d) 24

Answer: a

9. A point is 12 units away from the vertical plane and profile plane 15 units away from horizontal plane in 1st quadrant then the projections are drawn on paper the distance between the front view and side view of point is _____
a) 27
b) 15
c) 12
d) 24

Answer: d

10. A point is 7 units away from the vertical plane and horizontal plane 9 units away from profile plane in 1st quadrant then the projections are drawn on paper the distance between the front view and top view of point is _____
a) 27
b) 15
c) 16
d) 14

Answer: d

11. If a line AB parallel to both the horizontal plane and vertical plane then the line AB is _____

a) parallel to profile plane
b) lies on profile plane
c) perpendicular to profile plane
d) inclined to profile plane

Answer: c

12. A line parallel to horizontal plane and at a distance of 10 units to it and both the end of line are 6 units away from the vertical plane. Which of the following statement is false?
a) The line parallel to vertical plane
b) The side view of line gives a point
c) The length of line in front view is 10 units
d) The length of line in top view is 6 units

Answer: d

13. A hexagon is placed parallel to vertical plane which of the following projection is true?
a) Front view-line, top view- hexagon
b) Front view- hexagon, top view- line
c) Front view –line, top view-line
d) Top view- hexagon, side view- line

Answer: b

14. A pentagon is placed parallel to horizontal plane which of the following projection is true?
a) Front view-line, top view- pentagon
b) Front view- pentagon, top view- line
c) Front view –line, top view-line
d) Top view- line, side view- line

Answer: a

15. A rectangle is placed parallel to profile plane which of the following projection is true?
a) Front view-line, top view- rectangle
b) Front view- rectangle, top view- line
c) Front view –line, top view-line
d) Top view- rectangle, side view- line

Answer: c

16. A circle is placed parallel to vertical plane which of the following projection is false?
a) Front view-circle, top view- line
b) Length in top view and side view will be same
c) Circle is perpendicular to horizontal plane
d) The traces of plane containing this circle intersect at xy reference line

Answer: d

17. The top view, front view and side view of a triangle parallel to vertical plane, circle parallel to profile plane and rectangle parallel to horizontal plane respectively are _____
a) line, circle, line
b) triangle, line, rectangle
c) triangle, line, line
d) line, line, line

Answer: d

18. A Square is placed perpendicular to vertical plane and inclined to horizontal which of the following is true?
a) Front view-line, top view- square
b) Front view- line, top view- rectangle
c) Front view –line, top view-line
d) Top view-line, side view- rectangle

Answer: b

19. A circle is placed perpendicular to vertical plane and inclined to horizontal which of the following is true?
a) Front view-line, top view- circle
b) Front view- circle, top view- circle
c) Front view –line, top view-line
d) Top view- ellipse, side view- ellipse

Answer: d

20. A triangle is placed perpendicular to horizontal plane and inclined to vertical which of the following is true?
a) Front view-line, top view- triangle
b) Front view- triangle, top view- line
c) Front view –line, top view-line
d) Top view-line, side view- line

Answer: b

21. A triangle is placed perpendicular to horizontal plane and inclined to vertical which of the following is true. H.T is horizontal trace and V.T is vertical trace?
a) H.T- inclined to xy, V.T- inclined to xy
b) H.T- inclined to xy, V.T- perpendicular to xy
c) H.T-inclined to xy, V.T- parallel to xy
d) H.T-parallel to xy, V.T- perpendicular to xy

Answer: b

22. A square is placed perpendicular to vertical plane and inclined to horizontal plane which of the following is true. H.T is horizontal trace and V.T is vertical trace?
a) H.T- inclined to xy, V.T- perpendicular to xy
b) H.T- inclined to xy, V.T- perpendicular to xy
c) H.T- perpendicular to xy, V.T- inclined to xy
d) H.T- parallel to xy, V.T- perpendicular to xy

Answer: b

23. If a plane is perpendicular to vertical and inclined to horizontal plane with 30 degrees then the vertical trace makes _____ degrees with xy reference.
a) 30 degrees
b) 60 degrees
c) 150 degrees
d) 90 degrees

Answer: a

24. If a plane is perpendicular to vertical and inclined to horizontal plane with 30 degrees then the horizontal trace makes _____ degrees with xy reference.
a) 30 degrees
b) 60 degrees
c) 150 degrees
d) 90 degrees

Answer: d

25. A pentagon is placed perpendicular to horizontal plane and inclined to profile plane which of the following is true.
a) Front view-line, top view- pentagon
b) Front view- pentagon, top view- line
c) Front view –line, top view-line
d) Top view-line, side view- line

Answer: b