



Chettinad

College of Engineering & Technology

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Department of Mechanical Engineering

GE8152 ENGINEERING GRAPHICS

Multiple Choice Questions

UNIT III Projection of Solids

1. The minimum number of orthographic view required to represent a solid on flat surface is _____

- a) 1
- b) 2
- c) 3
- d) 4

Answer: b

2. If a right angled triangle is made to revolute about one of its perpendicular sides the solid formed is _____

- a) cube
- b) triangular prism
- c) cone
- d) cylinder

Answer: c

3. When a pyramid or a cone is cut by a plane parallel to its base, thus removing the top portion, the remaining portion is called _____

- a) cylinder
- b) frustum
- c) prism
- d) polyhedron

Answer: b

4. Straight lines drawn from the apex to the circumference of the base-circle are all equal and are called _____

- a) edges
- b) connecting lines
- c) projectors
- d) generators

Answer: d

5. The solid formed by 12 equal and regular pentagons as faces is called _____

- a) plantonic solid
- b) dodacahedron
- c) Icosahedron
- d) pyritohedron

Answer: b

6. If a solid is positioned that its axis is perpendicular to one of the reference plane. Which of the following is false?

- a) Axis is parallel to other reference plane
- b) Base is parallel to reference plane
- c) Projection on that plane gives true shape of its base
- d) Base is perpendicular to horizontal plane

Answer: d

7. If a solid's axis is perpendicular to one of the reference planes then the projection of solid on to the same plane gives the true shape and size of its _____

- a) lateral geometry
- b) base
- c) cross-section
- d) surface

Answer: b

8. When the axis of solid is perpendicular to H.P, the _____ view should be drawn first and _____ view then projected from it.

- a) front , top
- b) top, side
- c) side, front
- d) top, front

Answer: d

9. When the axis of solid is perpendicular to V.P, the _____ view should be drawn first and _____ view then projected from it.

- a) front , top
- b) top, side
- c) side, front
- d) top, front

Answer: a

10. When the axis of solid is parallel to H.P & V.P, then _____ view should be drawn first and _____ and _____ view then projected from it.

- a) front , top, side
- b) top, side, front
- c) side, front, top
- d) top, front, side

Answer: c

11. The front view, side view and top view of a regular square pyramid standing on horizontal plane base on horizontal plane.

- a) triangle, triangle and square
- b) square, triangle and triangle
- c) square, triangle and square
- d) triangle, square and triangle

Answer: a

12. The front view, side view and top view of a cylinder standing on horizontal plane base on horizontal plane.

- a) circle, rectangle and rectangle
- b) rectangle, rectangle and circle
- c) rectangle, circle and rectangle
- d) circle, triangle and triangle

Answer: b

13. The side view, top view and front view of a regular hexagonal pyramid placed base parallel to profile plane.

- a) Triangle, triangle and hexagon
- b) hexagon, triangle and triangle
- c) hexagon, triangle and hexagon
- d) triangle, hexagon and triangle

Answer: b

14. The side view, top view and front view of a regular cone placed base parallel to profile plane.

- a) Triangle, triangle and circle
- b) circle, triangle and triangle
- c) rectangle, triangle and circle
- d) triangle, circle and triangle

Answer: b

15. The side view, top view and front view of a regular pentagonal prism placed axis perpendicular to vertical plane.

- a) rectangle, rectangle and pentagon
- b) pentagon, rectangle and rectangle
- c) pentagon, rectangle and pentagon
- d) rectangle, pentagon and rectangle

Answer: a

16. When a solid is placed such that axis is inclined with the V.P and parallel to the H.P. Its projections are drawn in _____ stages.

- a) 1
- b) 4
- c) 2
- d) 3

Answer: c

17. A regular cone first placed in such a way its axis is perpendicular to V.P and next this is tilted such that its base is making some acute angle with V.P. The top view for previous and later one will be.

- a) Triangle, triangle
- b) irregular shape of circle and triangle, triangle
- c) triangle, irregular shape of circle and triangle
- d) circle, triangle

Answer: a

18. A regular pentagon prism first placed in such a way its axis is perpendicular to V.P and one edge is parallel to H.P and next this is tilted such that its axis is making some acute angle with V.P. The front view for previous and later one will be _____

- a) pentagon, pentagon

- b) rectangle, pentagon
- c) pentagon, irregular hexagon
- d) irregular hexagon, pentagon

Answer: c

19. A cylinder first placed in such a way its axis is perpendicular to V.P and next this is tilted such that its axis is making some acute angle with V.P. The front view for previous and later one will be _____

- a) circle, rectangle with circular ends
- b) rectangle, rectangle
- c) rectangle with circular ends, rectangle
- d) circle, rectangle

Answer: a

20. A cylinder first placed in such a way its axis is perpendicular to V.P and next this is tilted such that its axis is making some acute angle with V.P. The top view for previous and later one will be _____

- a) circle, rectangle with circular ends
- b) rectangle, rectangle
- c) rectangle with circular ends, rectangle
- d) circle, rectangle

Answer: b

21. A triangular pyramid is placed such that its axis is perpendicular to V.P and one of its base's edges is parallel to H.P the front view and top view will be _____

- a) Triangle of base, triangle due to slanting side
- b) Triangle due to slanting side, triangle of base
- c) Triangle of base, rhombus
- d) Rhombus, triangle of base

Answer: a

22. A square pyramid is placed such that its axis is inclined to V.P and one of its base's edges is parallel to H.P the front view and top view will be _____

- a) Square, Isosceles triangle
- b) Irregular pentagon, square
- c) Irregular pentagon, isosceles triangle
- d) Pentagon, equilateral triangle

Answer: c

23. A regular cone having its axis parallel to H.P and perpendicular to V.P at first but then the cone's axis keeping parallel to H.P and rotated such that its new axis is perpendicular to the previous axis. The front view of the previous and later one is _____

- a) Circle, triangle
- b) Circle, triangle with circular base
- c) Triangle, triangle
- d) Circle, circle

Answer: a

24. A regular pentagon prism first placed in such a way its axis is perpendicular to H.P and one edge is parallel to V.P and next this is tilted such that its axis is making some acute angle with H.P. The front view for previous and later one will be _____

- a) pentagon, rectangle
- b) rectangle, pentagon
- c) rectangle, rectangle
- d) irregular hexagon, pentagon

Answer: c

25. A cylinder first placed in such a way its axis is perpendicular to H.P and next this is tilted such that its axis is making some acute angle with H.P. The top view for previous and later one will be _____

- a) circle, rectangle with circular ends
- b) rectangle, rectangle
- c) rectangle with circular ends, rectangle
- d) circle, rectangle

Answer: a