## **ENG 232 QUESTIONS**

- 1. How do you represent a sectioned surface on a drawing? The sectioned plane is hatched except for webs and joints.
- 2. List out the various principles to be followed while dimensioning a drawing.
- $\checkmark$  Dimensions should not be duplicated
- $\checkmark$  Dimensions should be attached to the view that best shows the contour of the feature being dimensioned.
- $\checkmark$  Avoid dimensioning to hidden lines.
- ✓ Avoid dimesions over and through objects
- $\checkmark$  Wherever possible locate dimensions in adjacent views
- 3. Explain the terms,
- (a) half section: When the cutting plane passes halfway through an object and one-quarter of the object is removed the resulting section is called a half section.

(b) Full section: When the cutting plane passes entirely through an object, the resulting section is called a full section.

4. How are leader lines terminated?

They end with an arrow.

- 5. What do you understand by
- (a) scale = 5:1: It means five large times the original size
- (b) scale = 1:10: It means ten times smaller than the original drawing.
- 6. Give the shape identification symbols for the following:

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- (a) Diameter
- (b) Radius
- (c) square
- (d) spherical radius.
- (e) Centre line



- 7. What are the elements to be considered while obtaining a projection and what is an orthographic projection?
  - 1. Type of projection
  - 2. Planes of projection involved

Orthographic projection can be defined as is a means of representing three-dimensional object in two dimensions

8. When is a projection of an object called an orthographic projection?

This is when an object is depicted using parallel lines to project its outline on to a plane.

9. Explain the following, indicating the symbol to be used in each case:

(a)Third angle projection,





1. To project the auxiliary view, an imaginary plane known as .....

- a) <u>Reference Plane</u>
- b) Principle plane
- c) Normal plane
- d) Inclined plane
- 2. Reference plane is parallel to the direction of view
  - a) <u>True</u>
  - b) False
- 3. Dimension of one side of the inclined surface can be.....projected on the reference plane
  - a) Indirectly
  - b) <u>Equally</u>
  - c) Directly
  - d) Normally
- 4. In isometric projection the three edges of an object are inclined to each other at
- (a) 60° (b) 120° (c) 100° (d) 90°
- 5. The angle between the flanks of a metric thread is
  - (a) <u>60°</u> (b) 90° (c) 75° (d) 55°
- 6. Which one among the following represents a permanent fastener

a) Nut<u>b) Rivet</u> c) Screw d) Bolt

7. The convexity provided on the rim of the solid web cast iron pulley is called

a) Bending b) Curving <u>c) Crowning</u> d) Riveting

8. Section lines are generally inclined with the base, at an angle of

a) 30° <u>b)45°</u> c)60° d)90°

9. The isometric view of a sphere is always

a) a circle b<u>) an ellipse</u> c) a Parabola d) a Semicircle

10. In isometric projection, the four center method is used to construct

a) an ellipse b) a square c) a triangle d) a rectangle

11.**C** 

(i) With respect to the elevation and plan given below, name the solid



12.**A** 

(v) With respect to the front view and top view given below, name the solid



13. A footstep bearing is a

a) journal bearing b) thrust bearing c) pivot bearing d) pedestal bearing14. The angle between the flanks of B.S.W. thread is

a) 60° b) 65° c) 55° d)75°
15. Top view is projected on the
a) Vertical Plane b) Corner Plane c) Side Plane d) Horizontal Plane