

Course: B. Tech in Mechanical Engineering

Subject Name: Machine Drawing & CAD

Max Marks: 20

Date: - 11/10/2018

Semester: III

Subject Code: BT-MEC 304

Duration: 01 Hr.

Instructions to the Students:

1. All questions are compulsory.
2. Assumptions made should be clearly mentioned.

(Level/CO)

Marks

Q.1 Attempt all Multiple Choice Questions

01 X 06

1. The section view drawing in which one fourth of an object has been marked for removal is known as a _____ section.

K / CO1

 - A. Full
 - B. Half
 - C. Quarter
 - D. None of the above
2. Hatching lines are drawn at ____ degree to reference line.

A / CO1

 - A. 30°
 - B. 45°
 - C. 60°
 - D. 90°
3. When the load of bearing is carried by direct surface to surface contact is called

U / CO3

 - A. Full film condition
 - B. Boundary condition
 - C. Dry condition
 - D. None of the above
4. When two prisms intersect at right angle, the curve of intersection is of the form

U / CO2

 - A. Circular Arc
 - B. Elliptical Arc
 - C. Curved line
 - D. Straight line
5. When are ribs sectioned?

K / CO1

 - A. When they are perpendicular to the cutting plane
 - B. When they are parallel to the cutting plane
 - C. Ribs are always sectioned
 - D. Ribs are never sectioned
6. The gears used to connect two intersecting shafts is

A / CO3

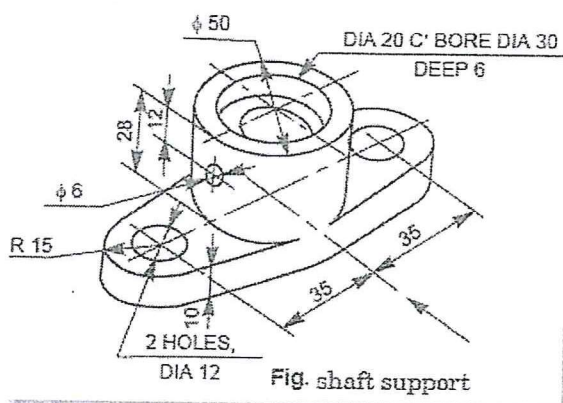
 - A. Spur gear
 - B. Helical gear
 - C. Worm and wheel
 - D. Bevel gears

Q.2 Attempt Any Two of the following

02 X 03

- (A) Draw full sectional view from the front of a shaft support shown in Figure below.

U / CO1



- (B) A cylinder of diameter 50 mm & 70 mm axis is completely penetrated by another cylinder of diameter 40 mm & 70 mm axis horizontally. Both axes intersect & bisect each other. Show the projections of curves of intersection for solid.

A / CO2

- (C) Which are the types of bearings? Explain any one.

U / CO3

01 X 08

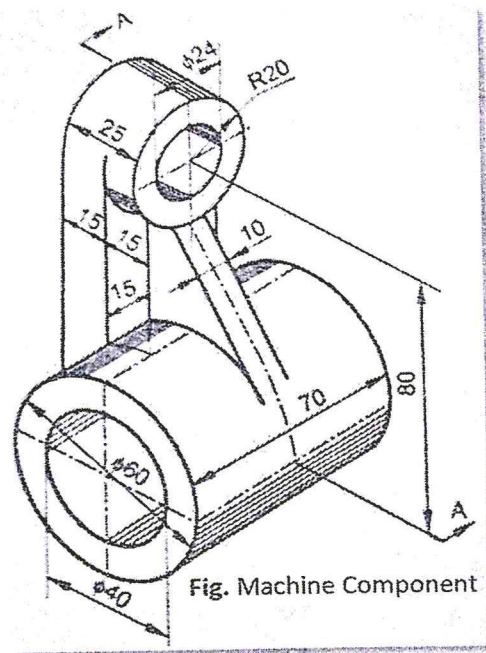
Q. 3 Attempt Any One of the following

- (A) A cylinder of 80 mm diameter is resting on HP on its base. A cone having base diameter 90 mm & height 110 mm, penetrates cylinder at right angle. The axis of cone is parallel to HP & VP both. Apex of cone reaches 60 mm beyond axis of cylinder. Sketch projections & show line intersections.

A / CO2

- (B) For machine component as shown in figure below shows pictorial view of an object. Using First angle method of projections, draw the required views with suitable scale. Make one of the views as sectional view.

U / CO1



*** End ***