

Level: Bachelor

Semester: Spring

Year : 2018

Programme: BE

Full Marks: 100

Course: Engineering Drawing

Pass Marks: 45

Time : 3hrs.

top view, true shape of the section and lateral surface development of the object.

Candidates are required to make clear and accurate drawings in appropriate dimensions.

The figures in the margin indicate full marks.

Assume suitable data if necessary. All dimensions are in mm.

Attempt all the questions.

1. Draw a parabola, given the distance between its focus F and directrix DD as 50 mm. Also draw a tangent to the curve at a point on it. 14
2. A line AB, inclined at  $30^\circ$  to the VP, has its ends 50 mm and 20 mm below HP. The length of its front view is 65 mm and its VT is 10 mm below the HP. Determine the TL of AB and its inclination with the HP. 14
3. Draw the complete orthographic views (3 views) of the given object (figure 1). 30

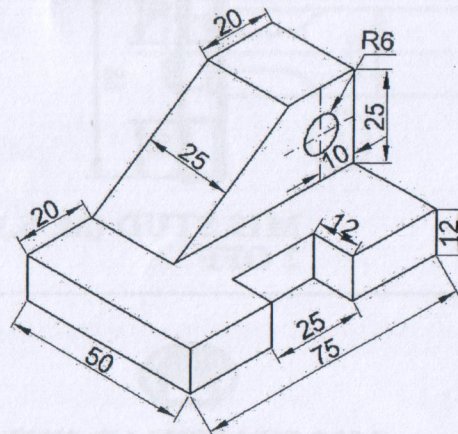


Figure 1

4. If a cutting plane cuts a right circular cone into given position, as shown in figure 2. Reproduce the given views of the object and draw sectional 18

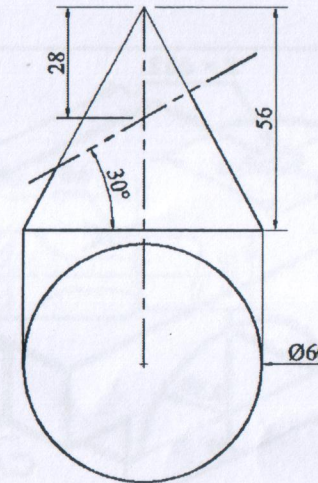


Figure 2

5. Figure 3 shows the detail of a Split Bearing. Draw the assembled front view with section. 24

OR

Assemble the parts of a knuckle joint, shown in figure 4 and draw, sectional view from the front.



Figure 3

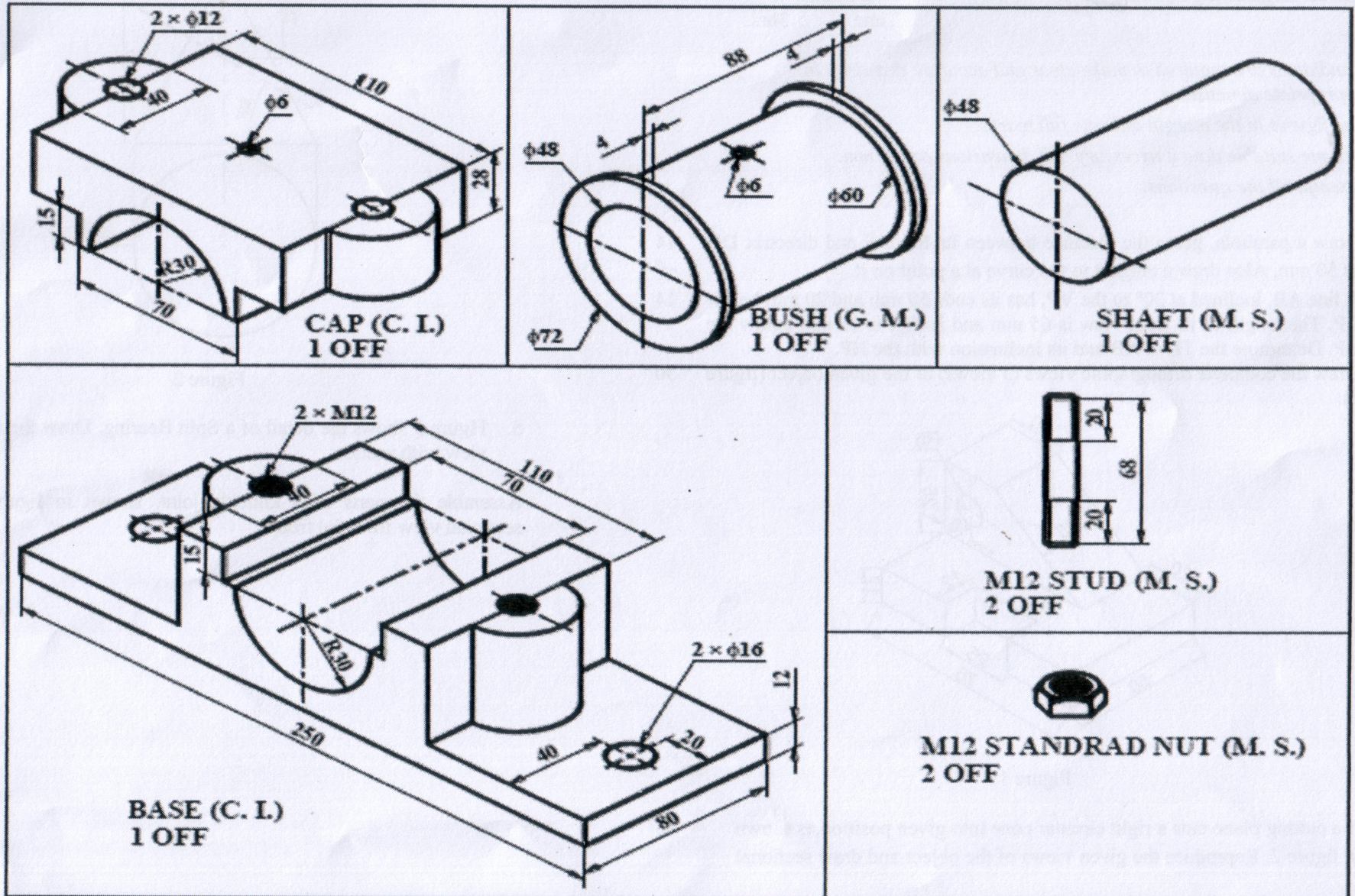
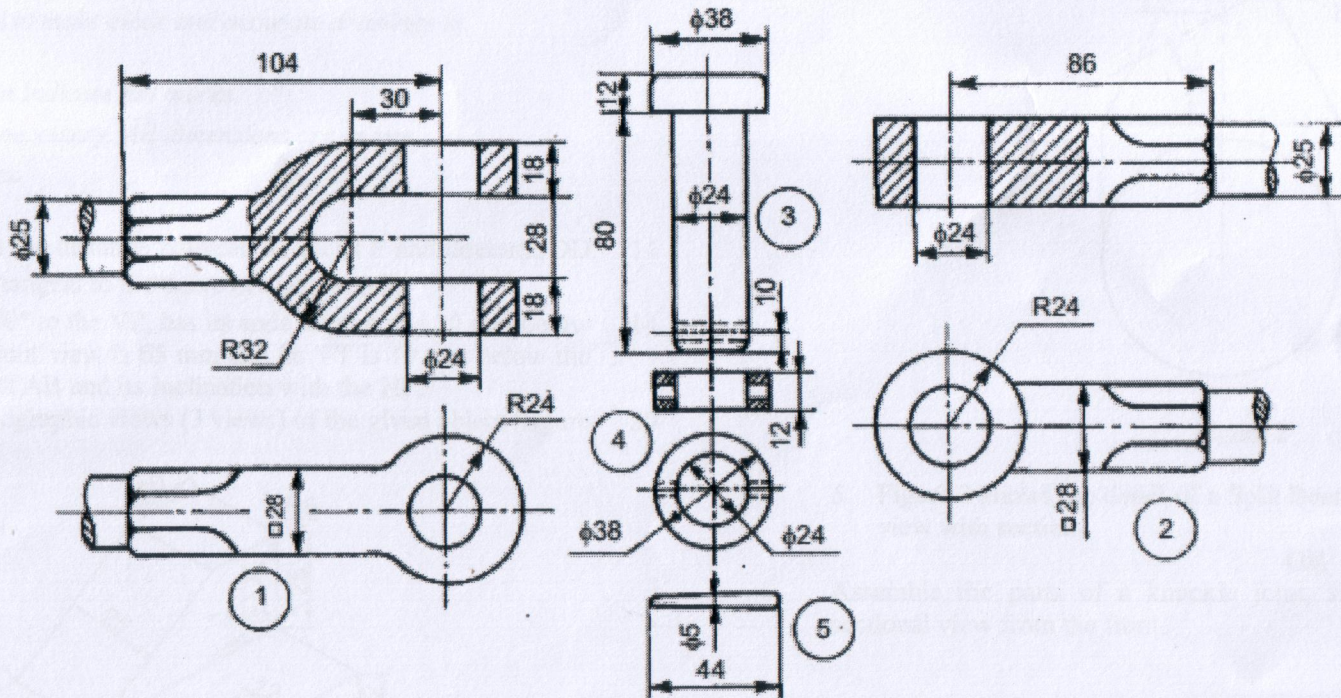




Figure 4



Parts list

Sl. No.	Name	Matl.	Qty.
1	Fork end	Forged steel	1
2	Eye end	Forged steel	1
3	Pin	Mild steel	1
4	Collar	Mild steel	1
5	Taper pin	Mild steel	1