

II B. Tech II Semester Regular Examinations, April/May – 2016
MACHINE DRAWING
 (Com. to ME, AME, MM)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answer **TWO** question from **Part-A**
 3. **Part-B** is compulsory

PART -A

1. Represent two views of hexagonal nut and square nut with proportions and take the diameter of the bolt as 30 mm (11M)
2. Draw a proportionate diagram of Double rivetted double strap chain type butt joint two connect plate of 20 mm size. (11M)
3. Draw two views of a Food step bearing for a shaft 100 mm diameter (11M)

PART -B

4. Draw the following views at assembly of eccentric mechanism as shown in Figure 1. (48M)
 a) Sectional front view. b) Right side view

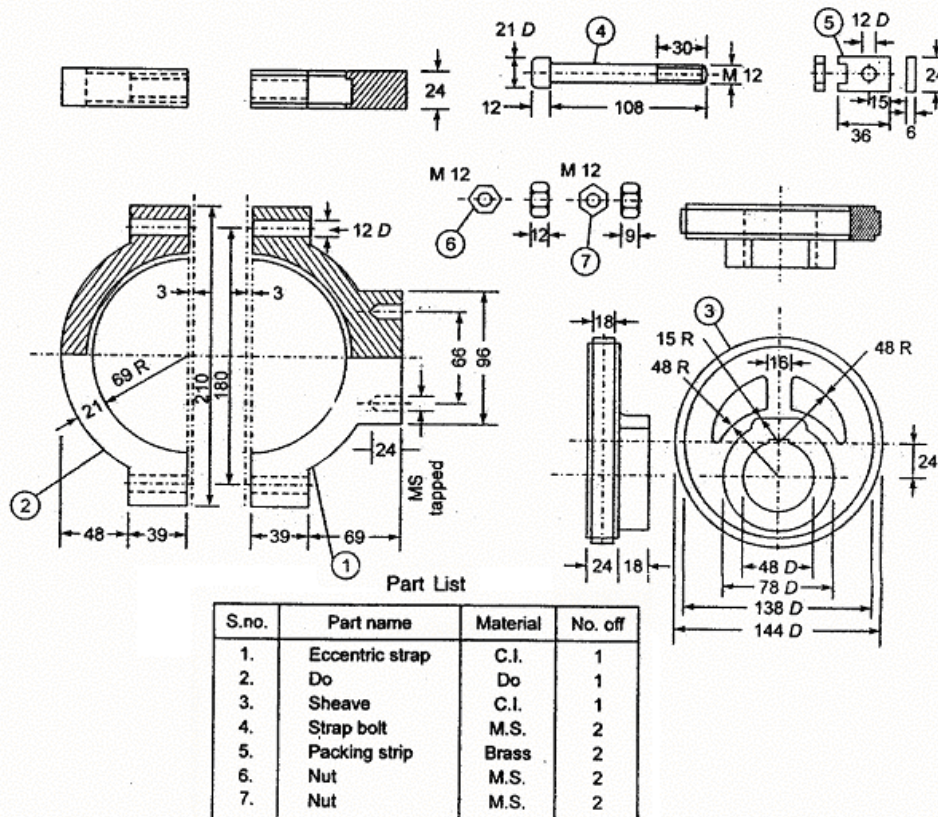
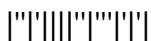


Fig. 1 Eccentric (Details)



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PART -A

1. a) Sketch the following thread profiles for a nominal diameter of 20 mm and pitch 2 mm (5M)
 - i) Worm thread
 - ii) ACME thread
- b) Sketch neatly, giving proportionate dimensions, the eye foundation bolt of diameter 25 mm? (6M)
2. Draw two views of a Single strap butt joint of two rows zig – zag to connect two plates of 9 mm thick? (11M)
3. Draw gib and cotter joint suitable for joining 40 mm square rods? (11M)

PART -B

4. Figure 1 gives the part drawings of Plummer block. Assemble all the parts and draw the following assembled views. (48M)

- a) Sectional front view b) Top view.

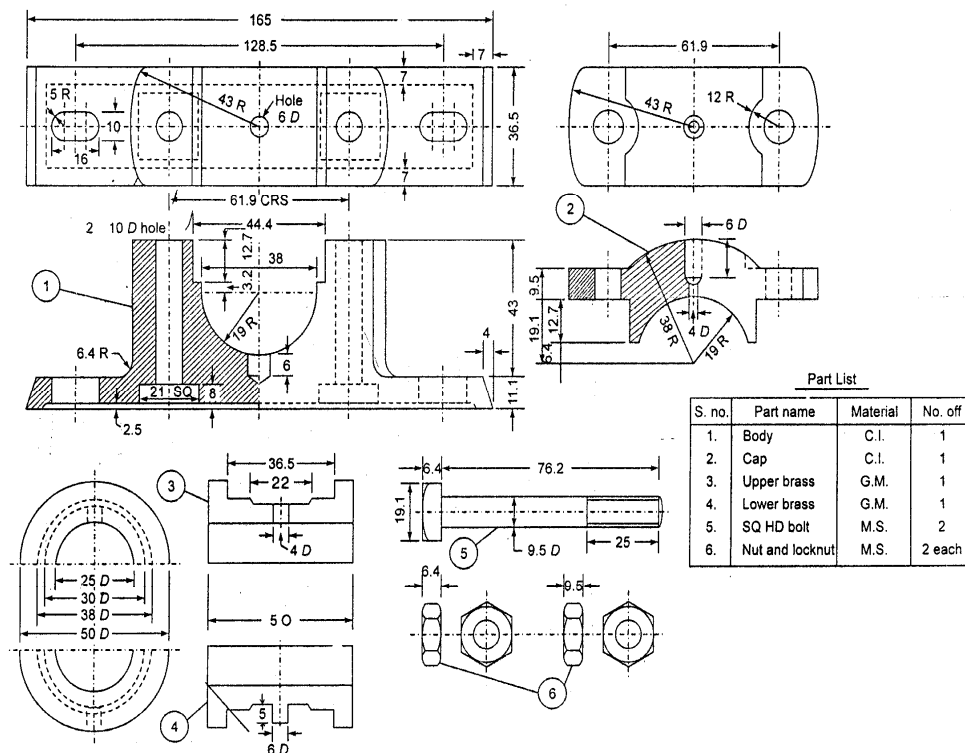


Fig. 1 Details of plummer block



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PART –A

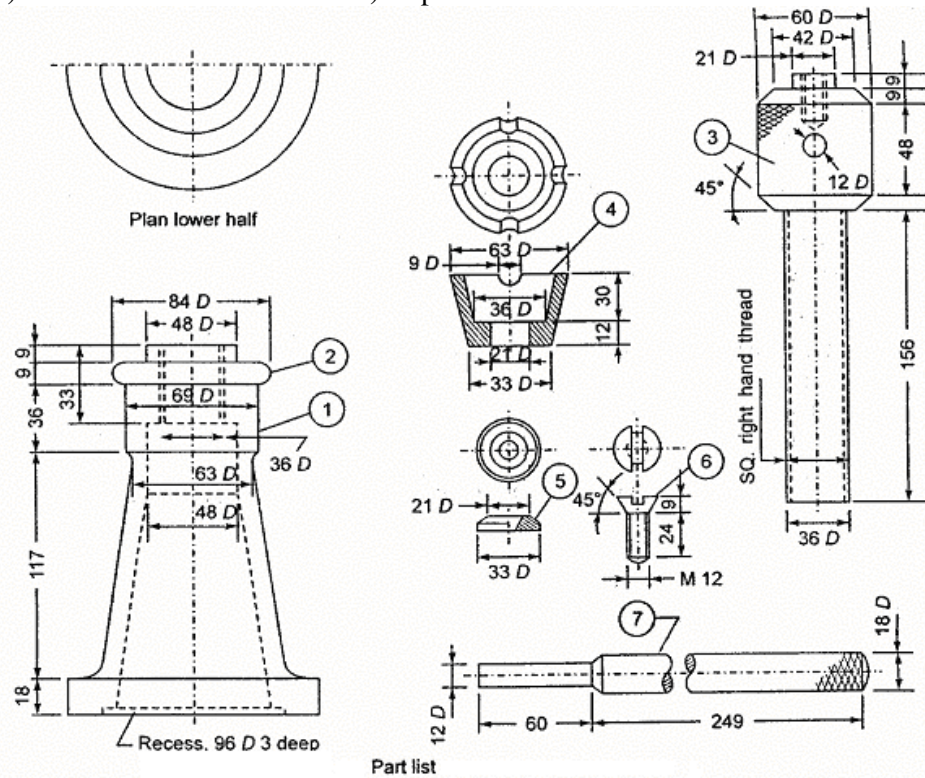
1. a) Two views of a taper sunk key positioned in a shaft of diameter 25mm and hub of diameter 50mm and mark dimensions on it. (6M)
- b) Sketch a feather key with proportions (5M)
2. Draw a proportionate diagram of Socket and spigot pipe joint to connect two pipes of ϕ 50mm (11M)
3. Draw a proportionate diagram of Journal bearing for a shaft of ϕ 40mm. (11M)



PART -B

4. Figure 1 gives the detailed drawings of a screw jack. Assemble all the parts and (48M)
draw the following assembled views.

- a) Sectional front view b) Top view



Part list

S. no.	Name of part	Material	No. off
1.	Casting	C.I.	1
2.	Nut	G.M.	1
3.	Screw	M.S.	1
4.	Cup	Cast steel	1
5.	Washer	M.S.	1
6.	Screw	M.S.	1
7.	Tommy bar	M.S.	1

Fig. 1 Screw-jack.



Code No: RT22035

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SET - 4

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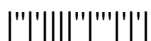
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PART -A

1. Draw a proportionate diagram of Single rivetted lap joint to connect two plates of 5mm thick. (11M)
2. Draw a proportionate diagram of pivot bearing for a shaft of ϕ 30mm (11M)
3. Draw a proportionate diagram of Sleeve type cotter joint to connect two shafts of ϕ 30mm. (11M)



PART -B

4. Assemble the parts of a spring loaded relief valve, shown in figure and draw the (48M)
 following views:
 a) Sectional view from the front
 b) View from the right

