

**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

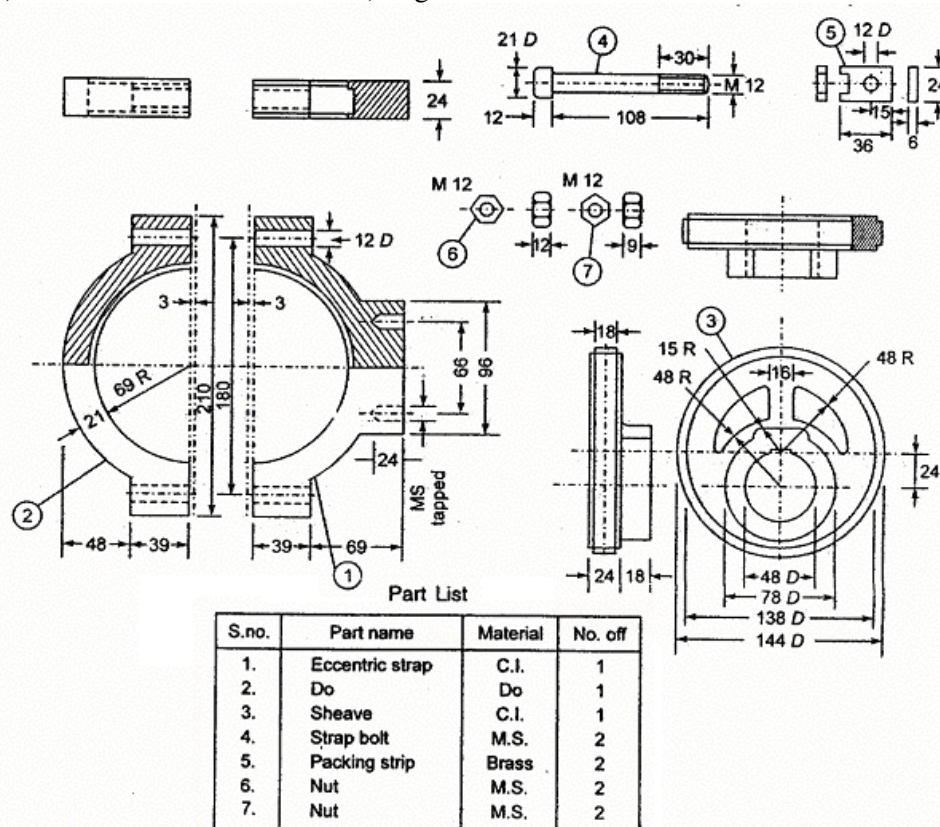


Fig. 1 Eccentric (Details)



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**PART -A**

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

**PART -B**

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

- Sectional front view
- Top view.

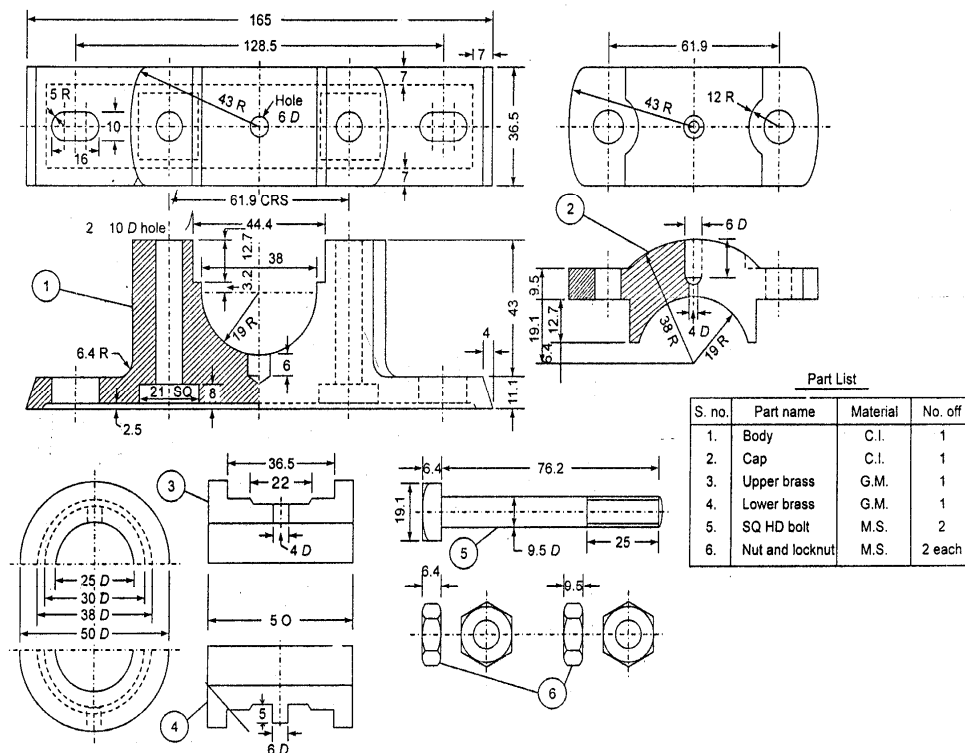


Fig. 1 Details of plummer block



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**PART –A**

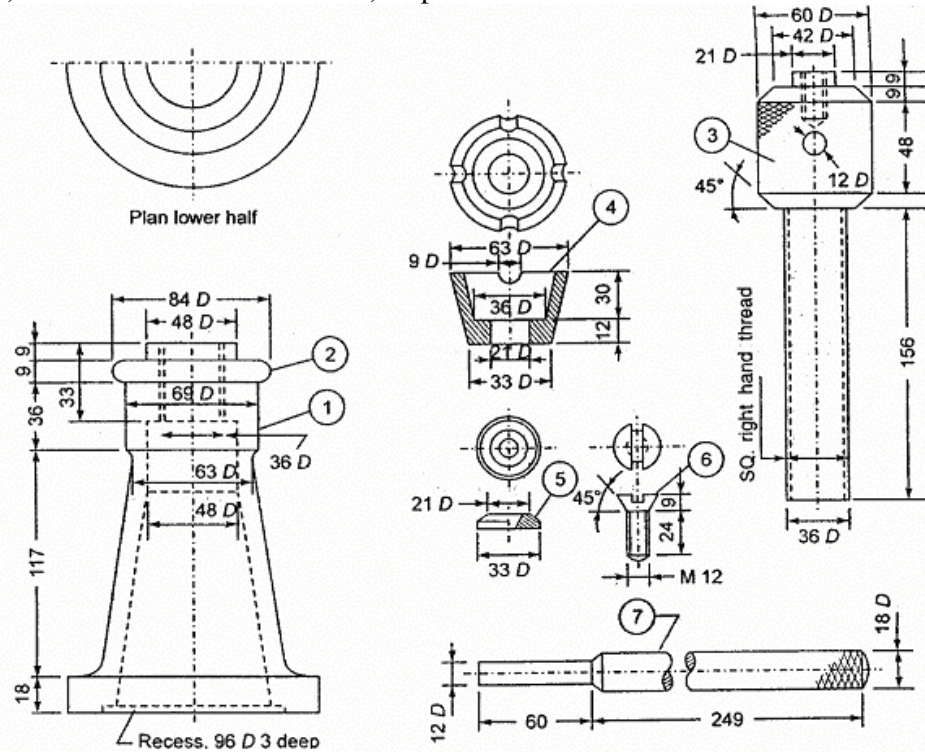
1. a) Two views of a taper sunk key positioned in a shaft of diameter 25mm and hub of diameter 50mm and mark dimensions on it. (6M)
- b) Sketch a feather key with proportions (5M)
2. Draw a proportionate diagram of Socket and spigot pipe joint to connect two pipes of  $\phi$  50mm (11M)
3. Draw a proportionate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



**PART -B**

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

- 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.



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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  $\phi$  30mm (11M)
3. Draw a proportionate diagram of Sleeve type cotter joint to connect two shafts of  $\phi$ 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

