

Code No: RT22035

**R13****SET - 1****II B. Tech II Semester Regular Examinations, April/May – 2016****MACHINE DRAWING**

(Com. to ME, AME, MM)

Time: 3 hours

Max. Marks: 70

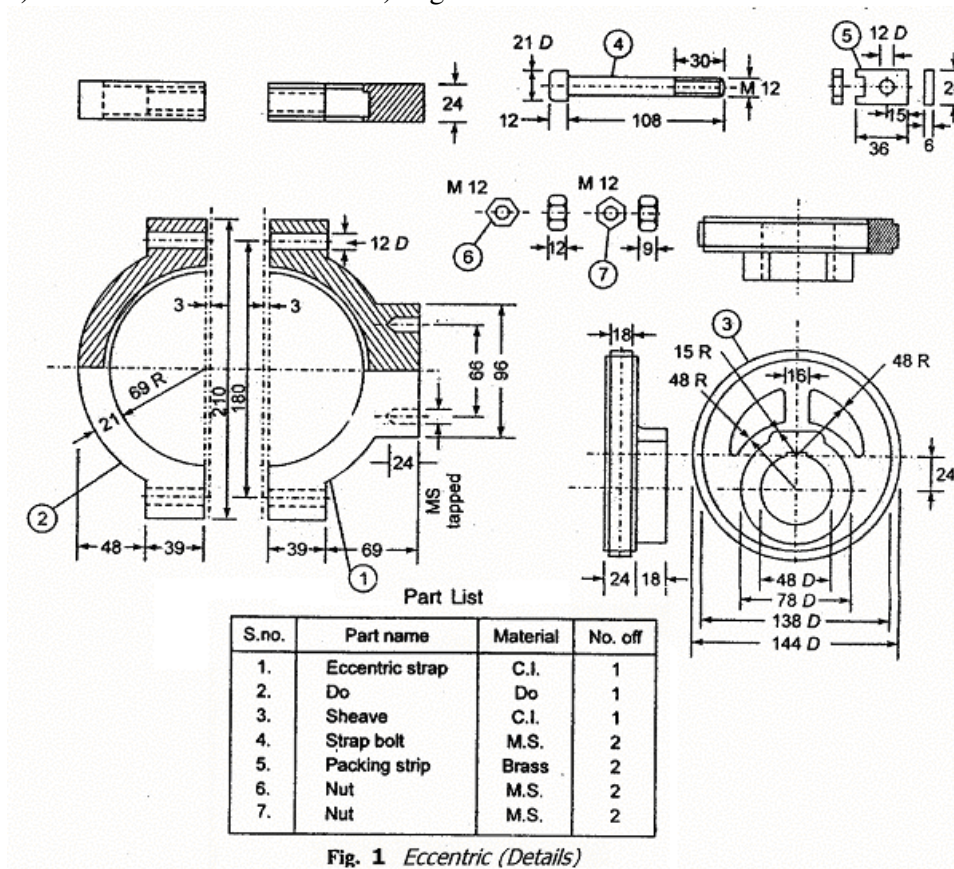
- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
 2. Answer **TWO** question from **Part-A**  
 3. **Part-B** is compulsory

**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



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- 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. 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.

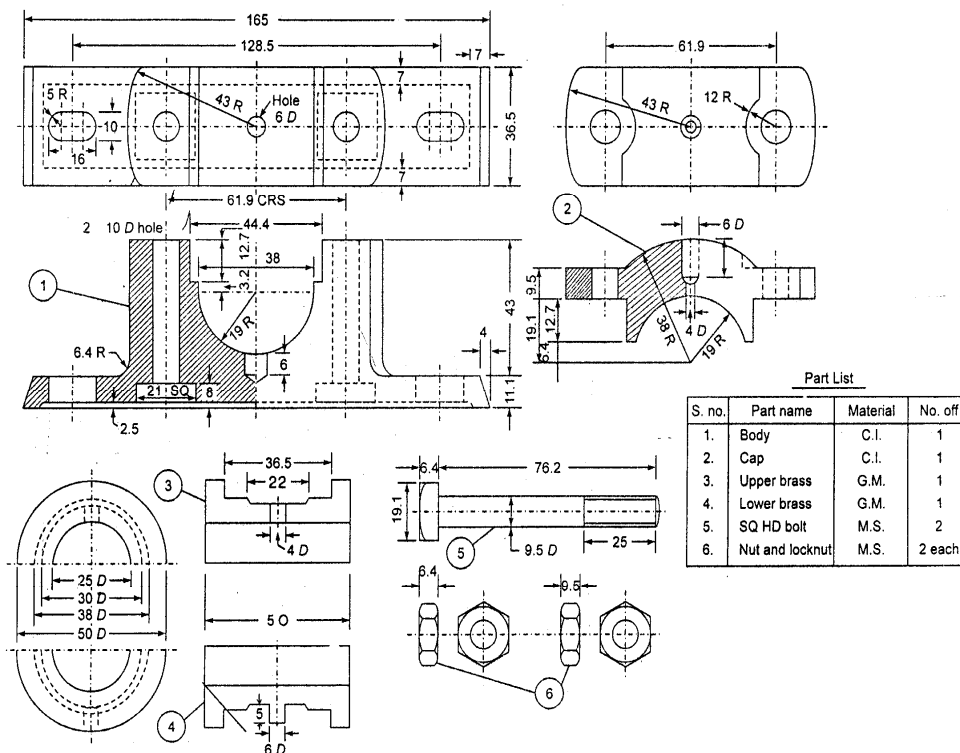


Fig. 1 Details of plummer block

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**R13****SET - 3****II B. Tech II Semester Regular Examinations, April/May – 2016****MACHINE DRAWING**

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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
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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)



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**R13****SET - 4****II B. Tech II Semester Regular Examinations, April/May – 2016****MACHINE DRAWING**

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Time: 3 hours

Max. Marks: 70

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- 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
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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)

