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

2. Draw a proportionate diagram of Double rivetted double strap chain type butt (11M) joint two connect plate of 20 mm size.

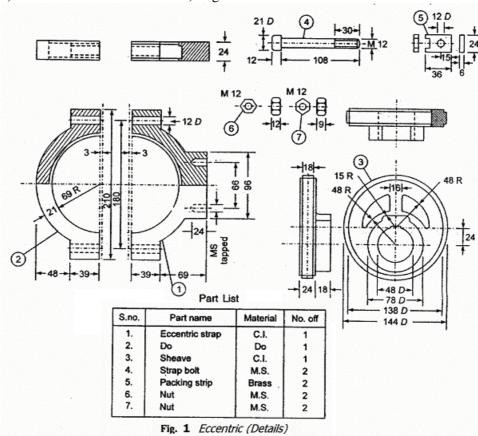
3. Draw two views of a Food step bearing for a shaft 100 mm diameter (11M)

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



R13

SET - 2

(11M)

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Time: 3 hours Max. Marks: 70

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2. Answer TWO question from Part-A

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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 (11M) two plates of 9 mm thick?

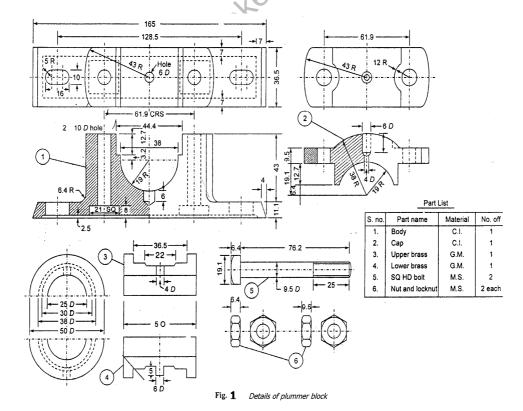
3. Draw gib and cotter joint suitable for joining 40 mm square rods?

PART-B

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

a) Sectional front view

b) Top view.



R13

SET - 3

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2. Answer TWO question from Part-A

3. **Part-B** is compulsory

PART -A

- 1. a) Two views of a taper sunk key positioned in a shaft of diameter 25mm and hub (6M) of diameter 50mm and mark dimensions on it.
 - 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)

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1 of 2

R13

SET - 3

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 Plan lower half right hand thread 84 D -48 D→ 36 D 63 D 48 D 117 M 12 18 249 ARecess. 96 D 3 deep Part list Material S. no. Name of part No. off 1. C.I. Casting G.M. 2. Nut 3. Screw M.S. Cup Cast steel 4. 5. Washer M.S. M.S. 6. Screw 1 M.S. 7. Tommy bar Fig. 1 Screw-jack.

R13

SET - 4

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(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

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PART -A

- 1. Draw a proportionate diagram of Single rivetted lap joint to connect two plates (11M) of 5mm thick.
- 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 (11M) φ30mm.

1 of 2

R13

SET - 4

PART-B

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

