

II B. Tech II Semester Supplementary Examinations January – 2014**MACHINE DRAWING**

(Com. to ME, AME)

Time: 3 hours

Max. Marks: 75

Note: Part A: Answer any TWO of the following questions:**PART-B** is compulsory.**PART- A**

(12.5M×2=25M)

1. Draw the conventional representation of wood, glass, leaf spring, external thread and metal
2. Draw any two views of a hexagonal headed bolt of nominal diameter 25 mm and length 100mm; with a hexagonal nut and washer.
3. Draw the sectional front view and top view of a double riveted double strap zig-zig butt joint. Take the thickness of main plates=10 mm. Assuming pitch of rivets as three times the rivet diameter.

PART-B

(50M)

4. Assemble the parts of the plummer block, shown in Figure. 1 and draw the following views:
 - i) Half sectional view from the front, with left half in section.
 - ii) View from above.

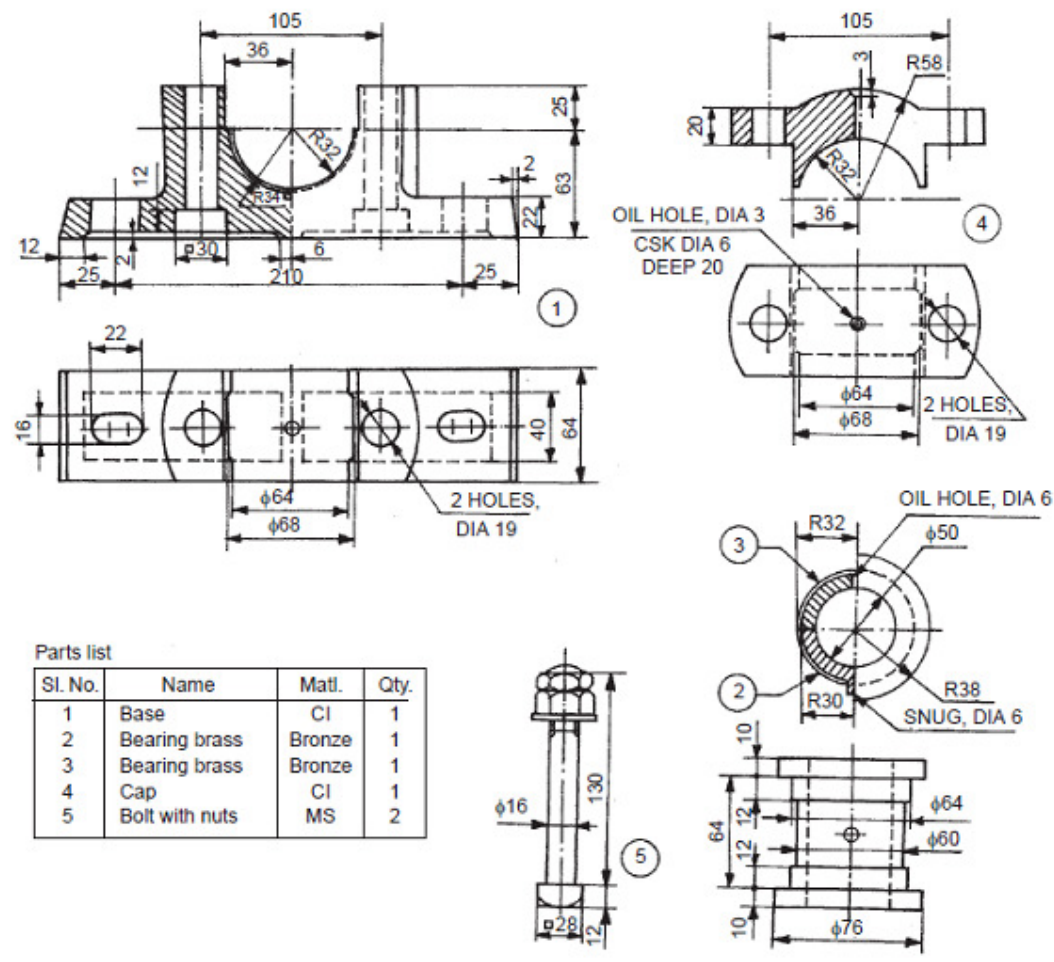


Figure.1



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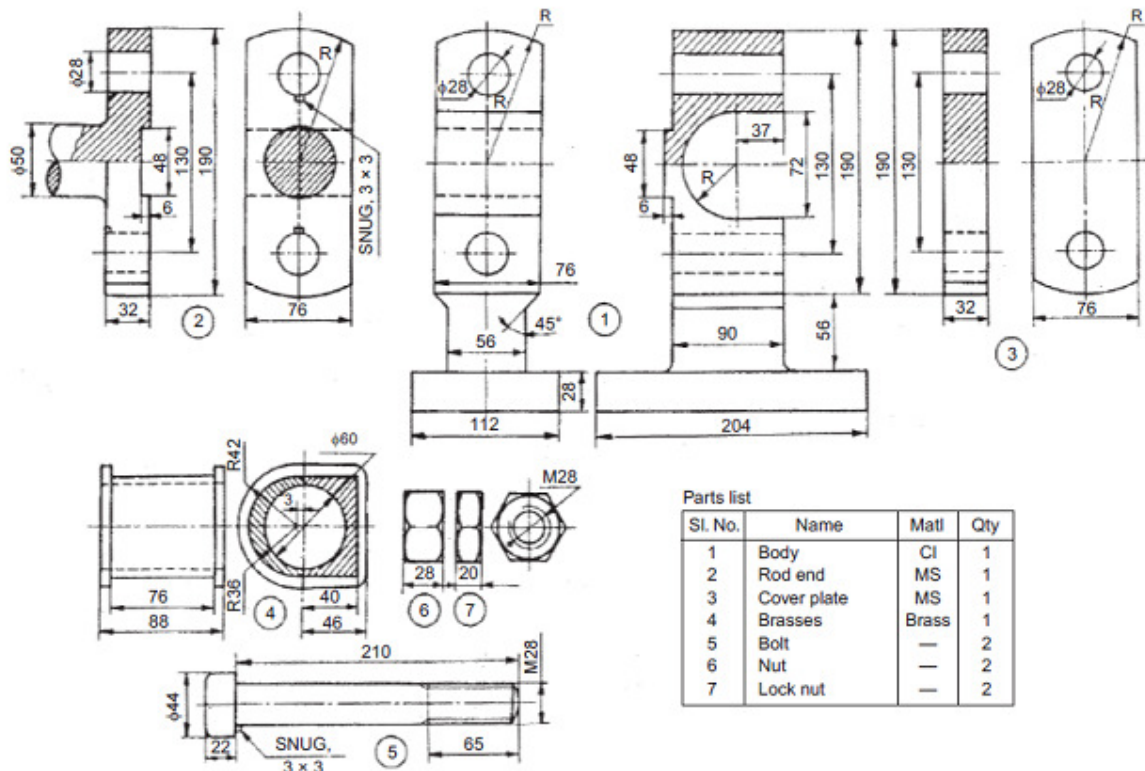
(12.5M×2=25M)

- Conventionally represent the following
i) Straight knurling ii) Bolt and Nut iii) Concrete iv) Glass.
- Draw a journal bearing for a shaft of 30 mm diameter.
- Draw the sectional front view and top view of a double riveted double strap zig-zig butt joint. Take the thickness of main plates=20 mm.

PART-B

(50M)

- Assemble the steam engine crosshead parts and draw, i) half sectional view from the front, with bottom half in section and ii) view from above.



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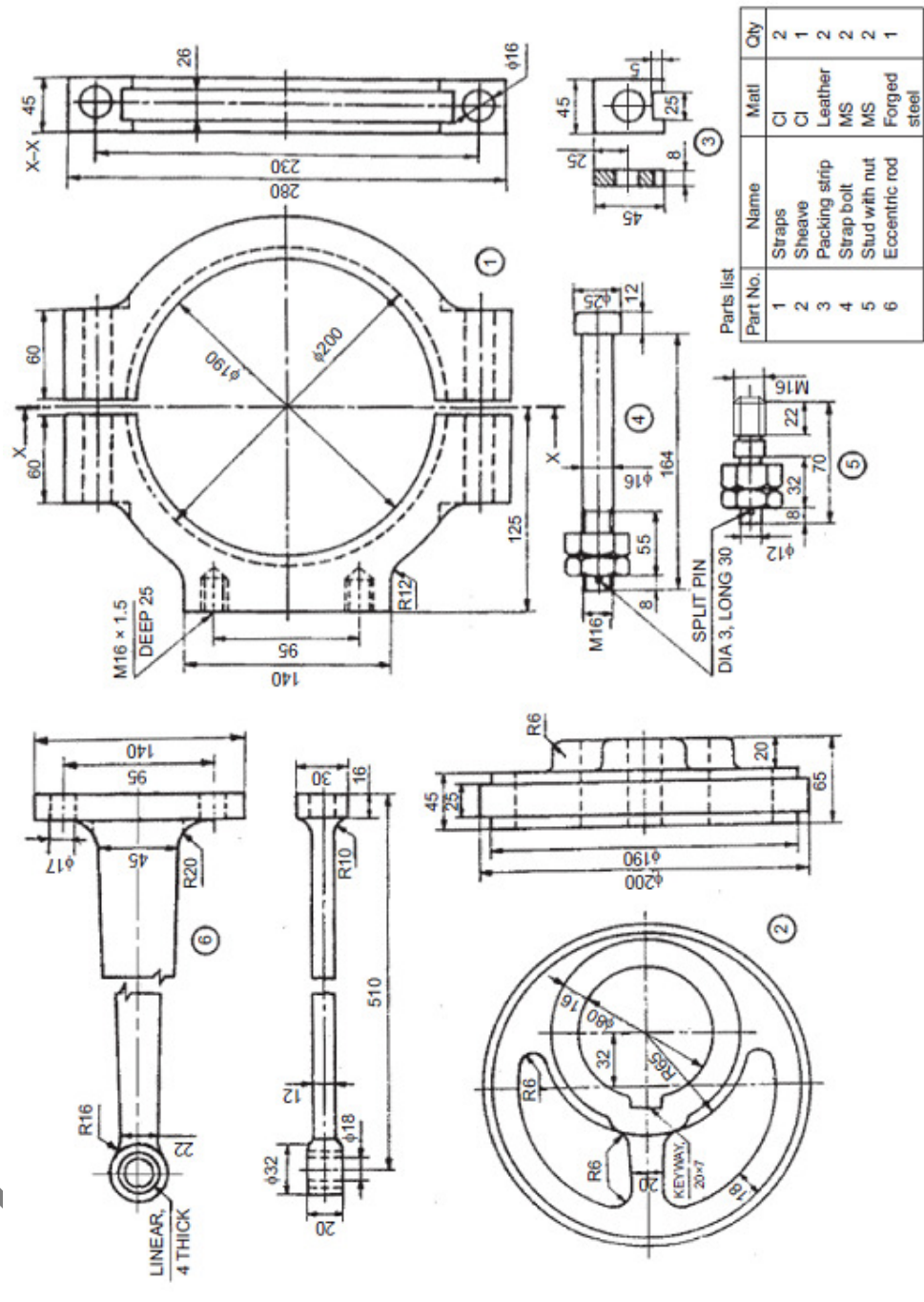
(12.5M×2=25M)

1. Sketch the following thread forms:
i) ACME ii) B.S.W iii) Knuckle iv) Buttress
2. Draw the eye bolt where $d=20\text{mm}$
3. Draw the sectional front view and top view of a single riveted double strap butt joint. Take the thickness of main plates $=10\text{ mm}$. Assuming pitch of rivets as three times the rivet diameter.

PART-B

(50M)

4. Assemble the parts of an eccentric and draw, i) half sectional view from the front, with top half in section, ii) view from the right and iii) view from above.



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Note: Part A: Answer any TWO of the following questions:**PART-B** is compulsory.**PART- A**

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1. Draw any two views of square nut and bolt assembly for a nominal diameter of 25 mm and length 100 mm.
2. Draw the BSW, V-Thread and Buttress Thread profiles.
3. Draw the front view and side view of solid journal bearing suitable for a shaft 50 mm diameter.

PART-B

(50M)

4. Assemble the parts of an air cock and draw, i) half sectional view from the front, ii) view from the right and iii) the view from above.

