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Total No. of Pages: 03
Total No. of Questions: 09**B.Tech (ME, AE, ANE, IE) (Sem.-3ST)****MACHINE DRAWING****Subject Code: ME-207****Paper ID: A0804****Time: 4 Hrs.****Max. Marks: 60****INSTRUCTION TO CANDIDATES:-**

- (i) **SECTION-A Is Compulsory Consisting Of TEN Questions Carrying TWO Marks Each.**
- (ii) **SECTION-B Contains FIVE Questions Carrying FIVE Marks Each And Student Has To Attempt Any FOUR Questions.**
- (iii) **SECTION-C Contains THREE Questions Carrying TEN Marks Each And Student Has To Attempt Any TWO Questions.**

SECTION-A

1. (a) Draw the symbol of third angle projection system.
- (b) Illustrate the aligned system of dimensioning.
- (c) What is the difference between pitch and lead of a screw thread ?
- (d) When is a universal coupling used ?
- (e) What is the purpose of a clutch ?
- (f) Differentiate between a key and a cotter.
- (g) Draw the freehand sketch of a square – headed bolt.
- (h) What is a bilateral tolerance ?
- (i) Give an example of the indication of machining allowance.
- (j) What is fullering ?

SECTION-B

2. Draw a BSW thread and show its full details.
3. Draw the sectional front view and top view of a double riveted lap joint (zig –zag type).
Take diameter of rivet as 24 mm.
4. Draw the three views of a hexagonal nut for a bolt 24 mm diameter.

5. Draw the half – Sectional Front view and side view of a spigot and socket joint on a proportionate scale.
6. Describe the various commands available in Auto CAD to draw a circle.

SECTION- C

7. Figure -1 shows the details of Plummer block. Assemble the parts and show its half – sectional front view.

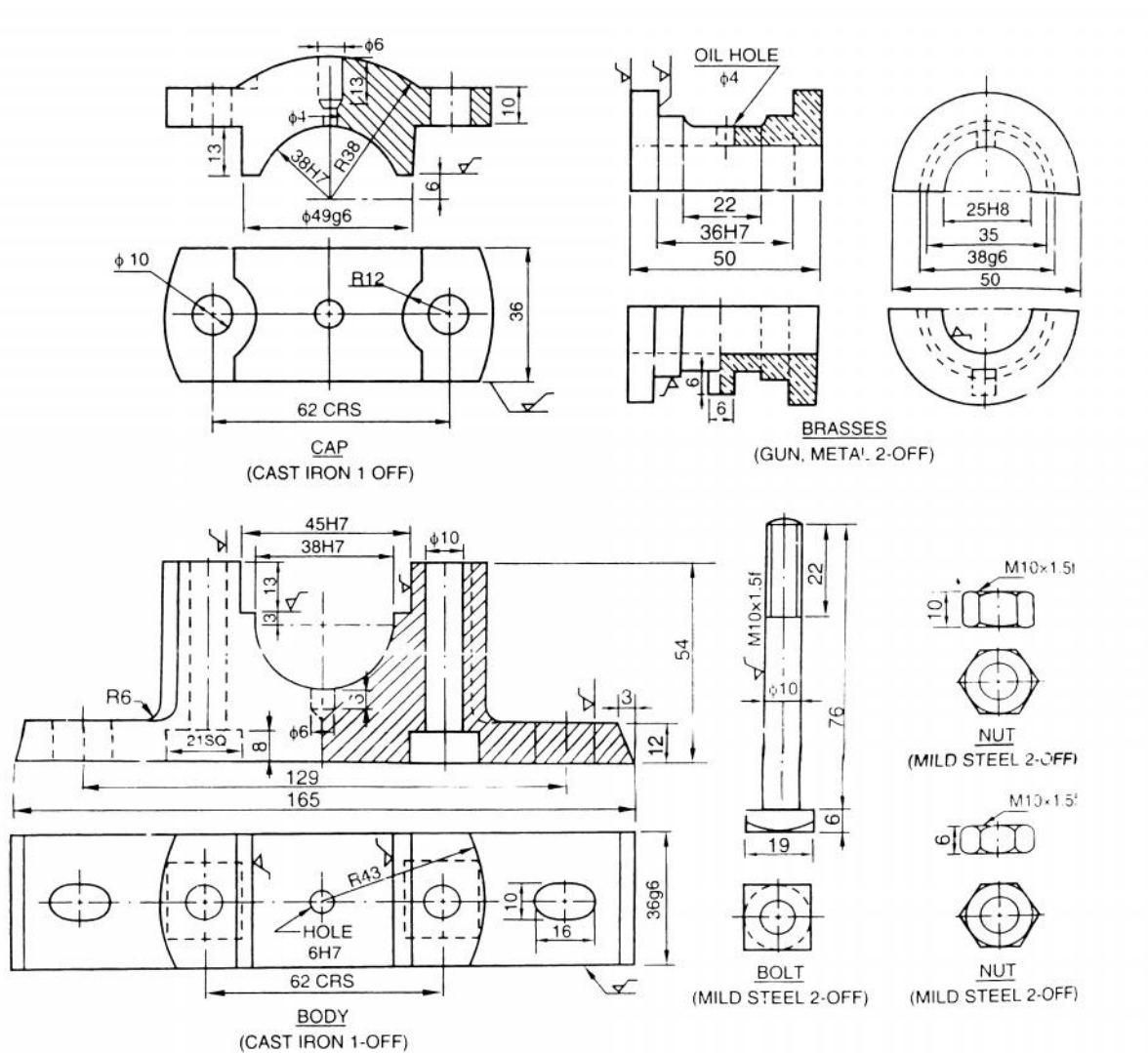


Fig.1. Details of Plummer block

8. Figure-2 shows the pictorial view of a foot step bearing. Draw its full sectional Front view.

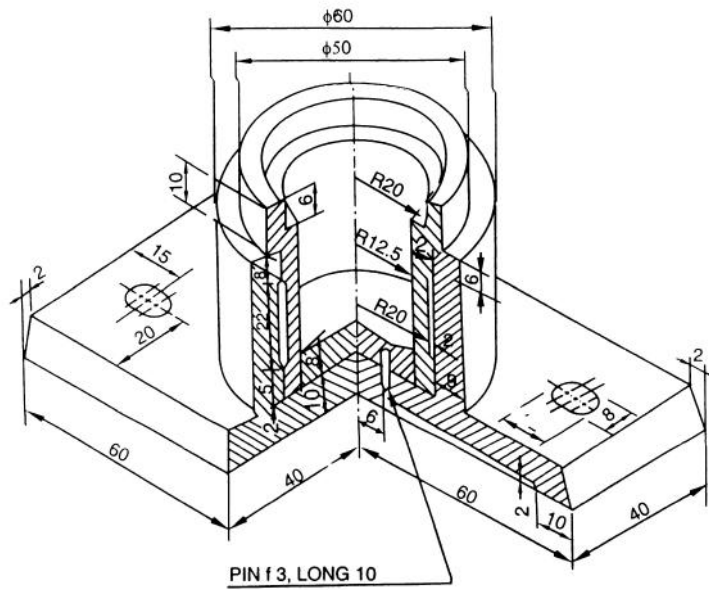


Fig.2

9. Figure-3 shows the flange, key and shaft to be connected in a flange coupling. Assemble the parts along with nuts and bolt and show the half sectional front view of the assembly.

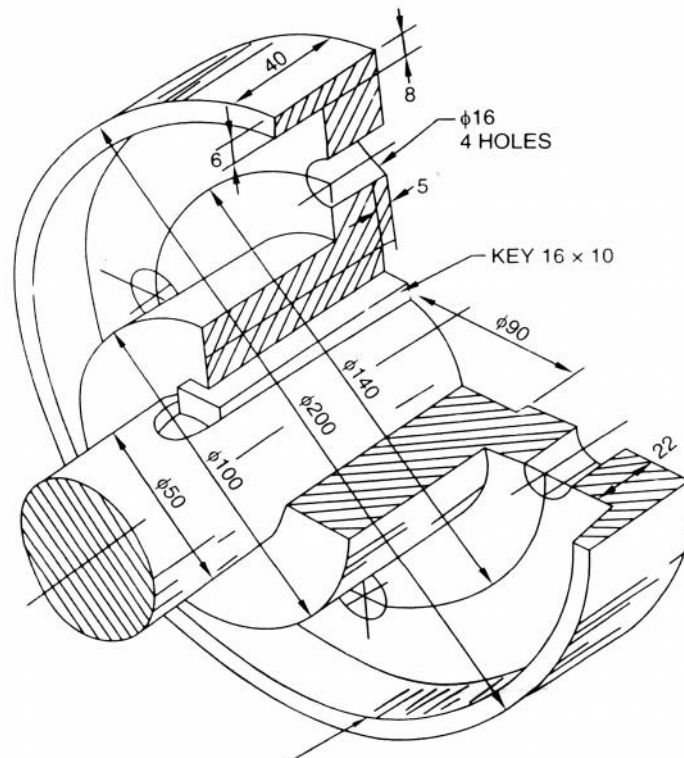


Fig.3

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