BE-II/6(A)

212374

MACHINE IT ING-COURSE NO. M-206

Time Allowed-3 Hours

Maximum Marks—100

Note: — Attempt any four questions. Question No. 1 is compulsory. Assume suitably any missing data.

- Details of a Foot Step Bearing (Pivot Bearing) are shown in the Figure 1. Draw the following assembly views:
 - (a) Front view-right half in section
 - (b) Top view
 - (c) Side view.

Also prepare a bill of material.

(30,15,10)

- 2. Draw:
 - (i) the view from the front,
 - (ii) sectional view from above and

[Turn over

(iii) the view from the right of a depth stop shown in Figure 2.

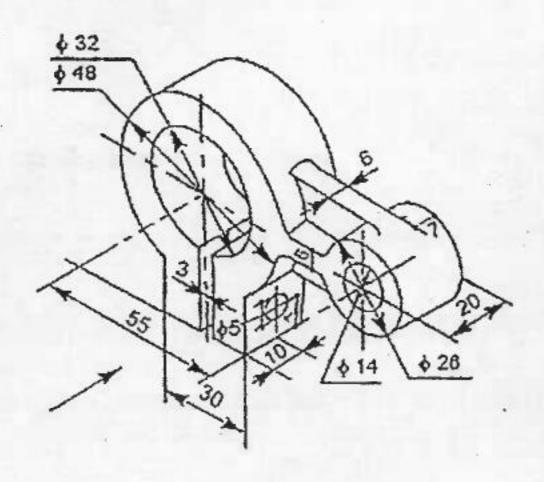


Fig. 2: Depth Stop

Draw sectional front elevation and side view of a Knuckle joint on proportional scale.

4. Draw:

- (a) sectional front view, and
- (b) Top view, of the single riveted, double strap butt joint

- Sketch any one method of strengthening cast iron steam pipe
 joints so that it will withstand higher pressures.
- 6. Sketch the necessary view of a step cone pulley with four steps, operating with:
 - (a) flat belts and
 - (b) V-belts.

Assume that the pulleys are to be mounted on shafts of diameter 50 mm.

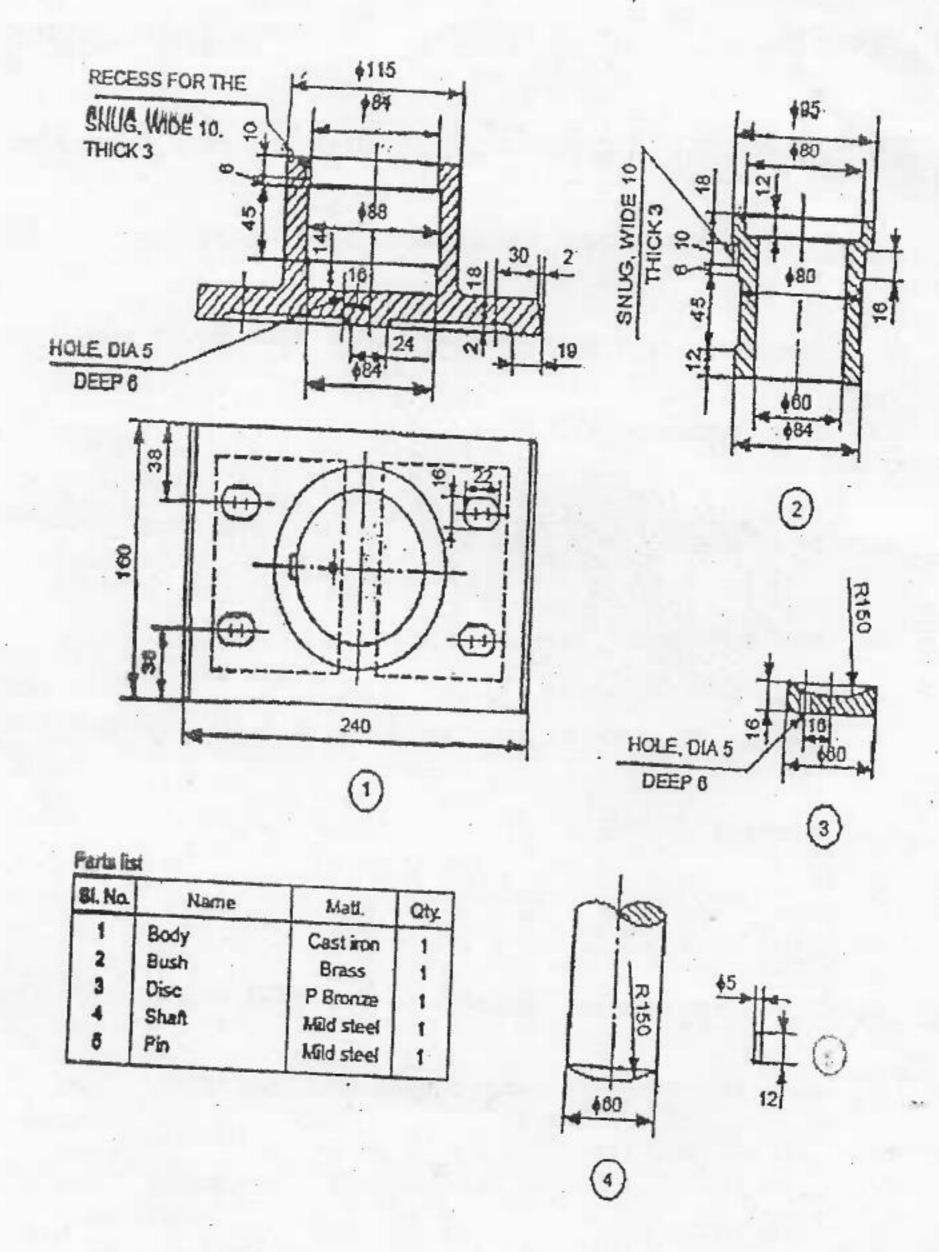


Figure 1: Details of Foot-step Bearing