

Roll No

AU/ME-226

B.E. IV Semester

Examination, June 2017

Choice Based Credit System (CBCS)

Machine Drawing and CAD

Time : Three Hours

Maximum Marks : 60

- Note:** i) Attempt any four questions.
ii) Question No. 3 or 4 compulsory.

1. a) Draw any five conventional representations of machines components.
b) Draw a sectional front view and top view double riveted Butt joint chain riveting to join plates of thickness 15mm.
2. a) Discuss two methods normally followed while dimensioning a drawing.
b) Sketch the following welding symbol along with respective illustration.
 - i) Single V-Butt weld
 - ii) Fillet weld
3. Draw the assembled half sectional front view and top view of pedestal bearing shown in figure 1.

OR

[2]

4. Draw the sectional front and top view of Lathe tool post. Show in figure 2.
5. a) What are the facilities that are useful for creating geometric entities in drafting system?
b) What are various construction facilities available for modelling in a 3D modelling system?
6. a) How a square thread is drawn in schematic form?
b) What is purpose of shaft? Draw and discuss various types of shaft.
7. a) Compare 2D and 3D wireframe modelling with respect to their utility for an engineering industry.
b) Explain the parametric representation of curves. Why its more used compared to non-parametric (implicit) representation.

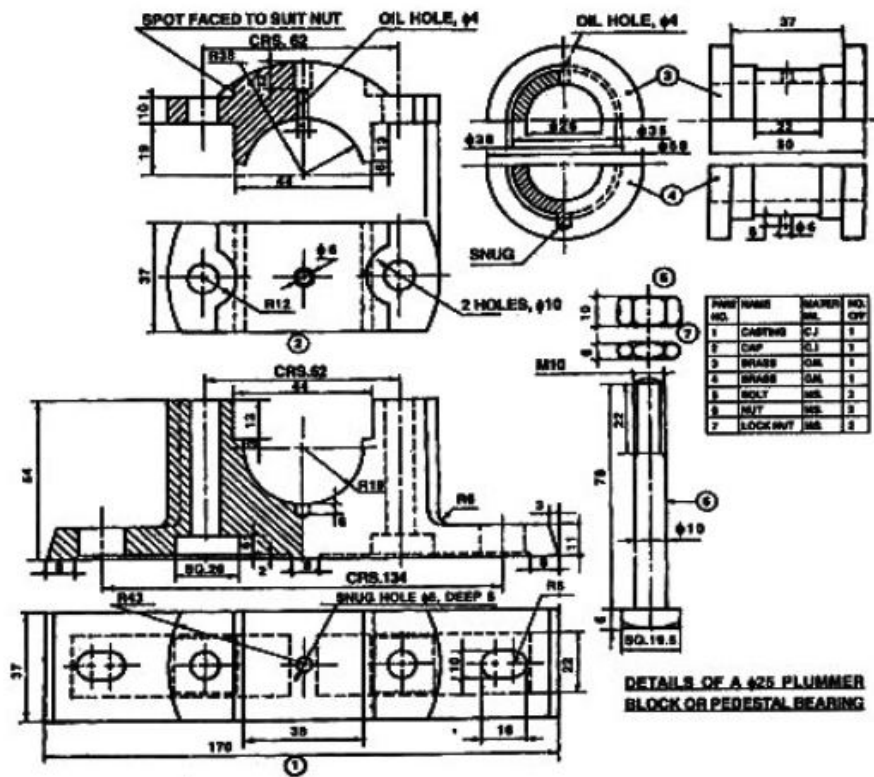


Figure 1 Details of a $\phi 25\text{mm}$ Plummer Block or Pedestal Bearing

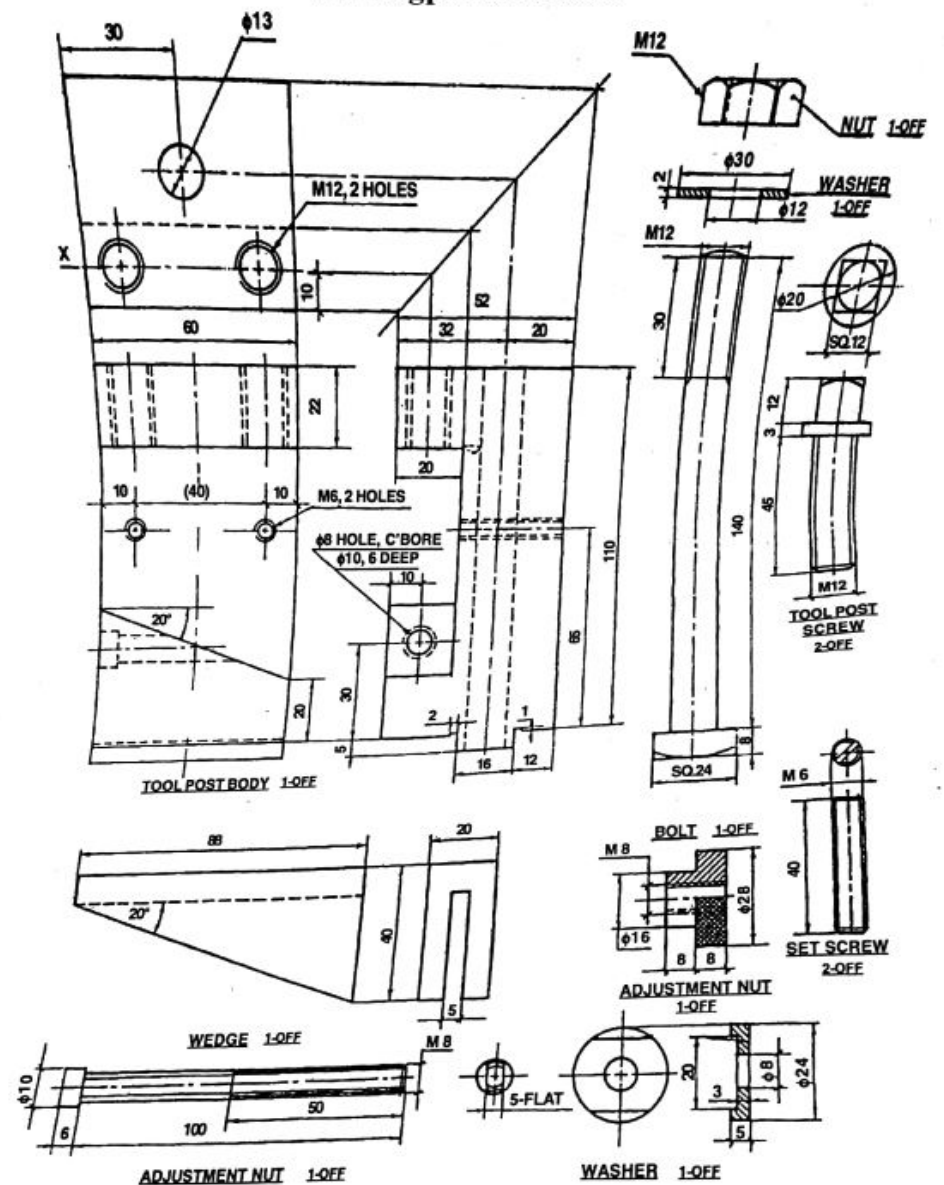


Figure 2 Details of Tool Post
