



**Third/Fourth Semester B.E. Degree Examination, July/August 2021  
(ME/MA)**

## COMPUTER AIDED MACHINE DRAWING

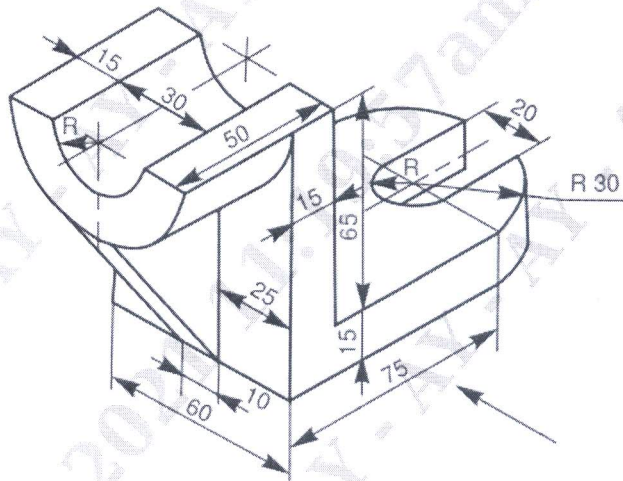
**Time: 3 Hours**

**Max. Marks: 100**

- Note:**
1. Answer any ONE question from each of the parts A, B and C.
  2. Use **FIRST ANGLE** projection only.
  3. If any data is missing it may be suitably assumed and mentioned.
  4. All the calculations should be on answer sheet supplied.
  5. All the dimensions are in mm.
  6. Drawing instruments may or may not be used for sketching.
  7. **Part C Assembled View should be in 3D and other 2 views in 2D.**

### PART - A

- Q.No.1** Draw (i) the sectional view from the front, (ii) the view from above and (iii) the view from the left of an anchor bracket shown in Fig. 1. **(25 Marks)**



*Fig. 1 Anchor bracket*

- Q.No.2** Draw the profile of (a) ISO Screw thread (b) ACME thread of pitch 40mm indicate all the proportions and dimensions. **(25 Marks)**

### PART - B

- Q.No.3** Draw the following view of a Knuckle joint used to joining two rods of diameter 20mm  
(a) Sectional front view (b) side view. **(25 Marks)**
- Q.No.4** Draw sectional front view and side view of Oldham's coupling to connect two rods of diameter 25mm, indicate all dimensions. **(25 Marks)**

**17ME36A/MEA306/ME46A/MEA406/17MA36  
PART - C**

**Q.No.5** Figure 2 shows the details of a Plummer block. Assemble the parts of the Plummer block and show the following views.  
 a. Half sectional front view showing the right half in section.  
 b. Top view

**(50 Marks)**

**Q.No.6** Figure 3 shows the part drawing of a tail stock. Assemble the tail stock and show the following views.  
 a. Sectional front view showing the top spindle portion in section.  
 b. Left profile view

**(50 Marks)**

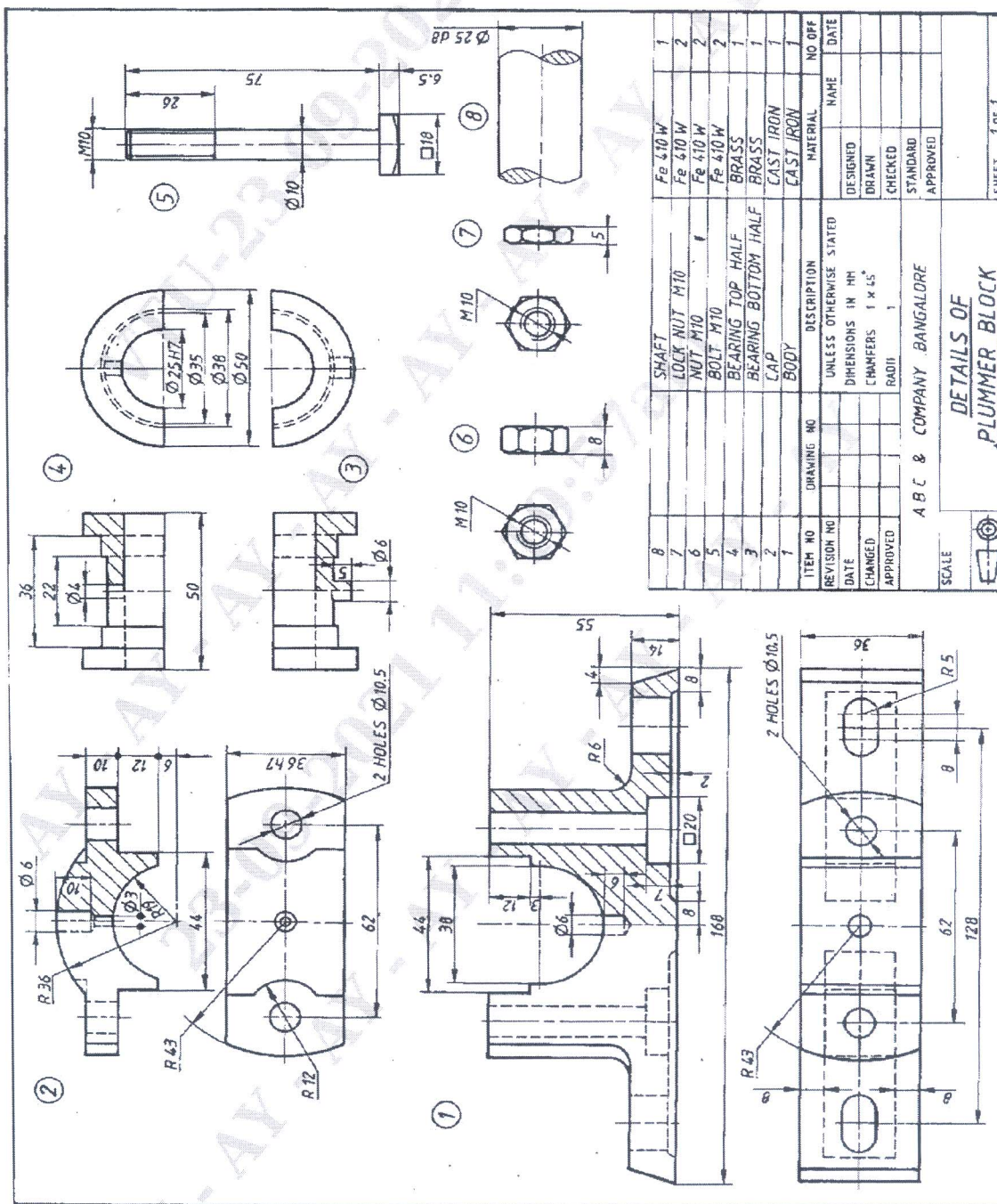


Figure 2: Details of Plummer block



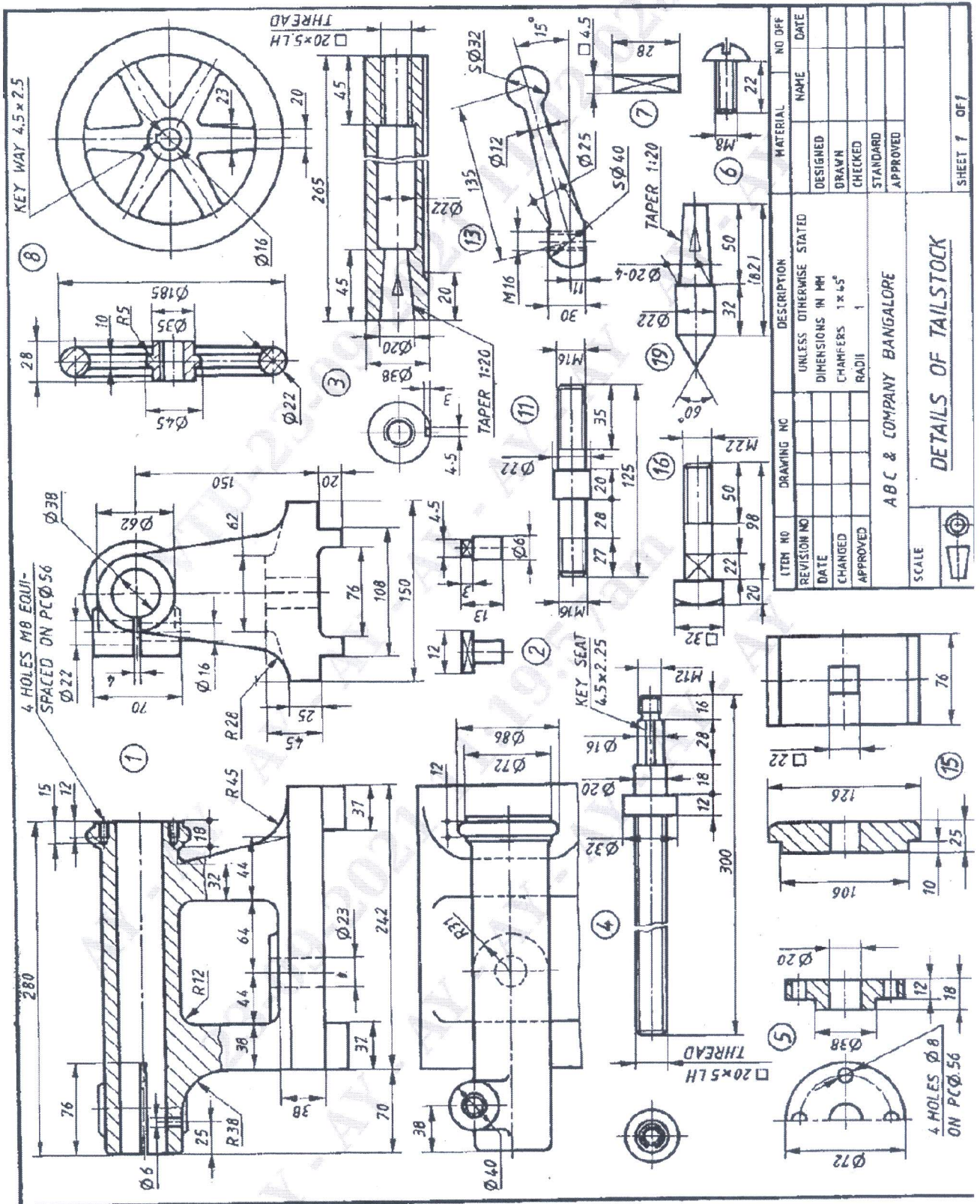


Figure 3: Details of tailstock