USN 15ME36A/46A

Third Semester B.E. Degree Examination (MECHANICAL) COMPUTER AIDED MACHINE DRAWING

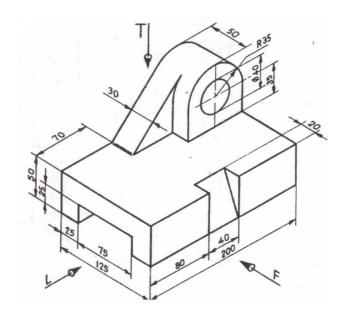
Time: 3 Hours Max. Marks: 80

Note: 1. Answer any ONE question from each of the parts A, B and C.

- 2. Use **FIRST ANGLE** projection only.
- 3. Missing data if any may suitably be assumed.
- 4. All the calculations should be on answer sheet supplied.
- 5. All the dimensions are in mm.
- 6. Part C Assembled View should be in 3D and other 2 views in 2D.

PART A

1. Using First Angle Projection, Draw the Orthographic Views of the object shown in fig below.



15Marks

- **2.** Draw the following profiles of pitch 50mm.
 - i. Square thread
 - ii. ISO thread

15Marks

PART B

- **3.** Draw the following views an assembled Knuckle Joint to 1:1 scale assuming the diameter of the shaft d = 20mm.
 - i. Front view with top half in section
 - ii. Top view

15 Marks

4. Draw sectional Front View & Side View of a Protected Type Flange Coupling to connect two shafts of diameter 30mm. Indicate the dimensions. **15 Marks**

PART C

- **5.** Figure 1 shows the details of 'TAIL STOCK'. Assemble the parts and draw the following views of the assembly.
 - i. Sectional Front View
 - ii. Top View

50 Marks

- **6.** Details of 'MACHINE VICE' are shown in following Figure 2. Assemble the parts and draw the following views of the assembly.
 - i. Sectional Front view
 - ii. Top view

50 Marks

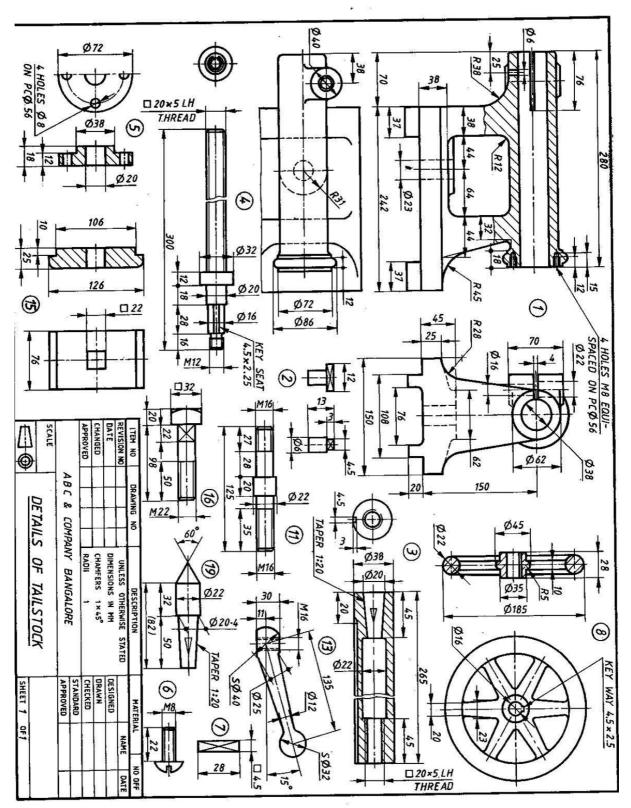


Figure 1 'TAIL STOCK'

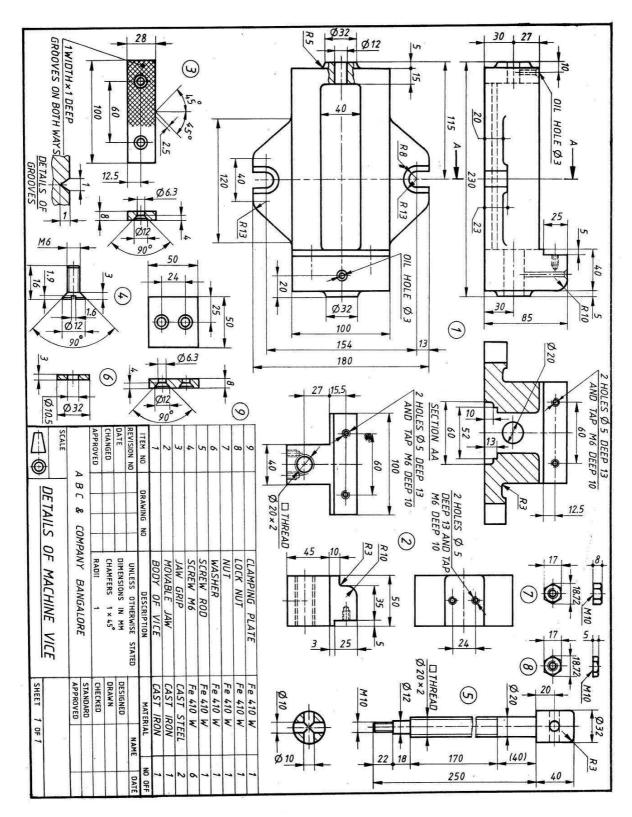


Figure 2 MACHINE VICE'