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Third Semester B.E. Degree Examination, December 2016
(ME/MA)

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

- Q.No.1** A cone of side of base diameter 50mm and axis length 65mm is rests with its base on HP. Draw the true shape of the section made by a section plane perpendicular to the VP and inclined to the HP at 50° and passing through an end point on the circumference of the base circle of the cone. **(15 Marks)**
- Q.No.2** Draw the following to indicate conventional representation of (a) Acme thread having a pitch of 45mm. Show at least 03 threads in section. **(15 Marks)**

PART - B

- Q.No.3** Draw to 1:2 Scale the top and sectional front views of a double riveted lap joint with Zig – zag riveting. The thickness of the plates is 9mm. Show at least three rivets in each row. Indicate all the dimensions. Use snap head rivets. **(15 Marks)**
- Q.No.4** Draw sectional front view and side view of a split Muff Coupling to connect two rods of diameter 20mm. Indicate all dimensions. **(15 Marks)**

PART - C

- Q.No.5** Figure 1 shows the details of a “MACHINE VICE”. Assemble the parts and draw
(a) Sectional Front View.
(b) Top View. **(50 Marks)**
- Q.No.6** Figure 2 shows the details of a “TAIL – STOCK” of a lathe. Assemble the parts and draw.
(a) Sectional front view.
(b) Top view. **(50 Marks)**

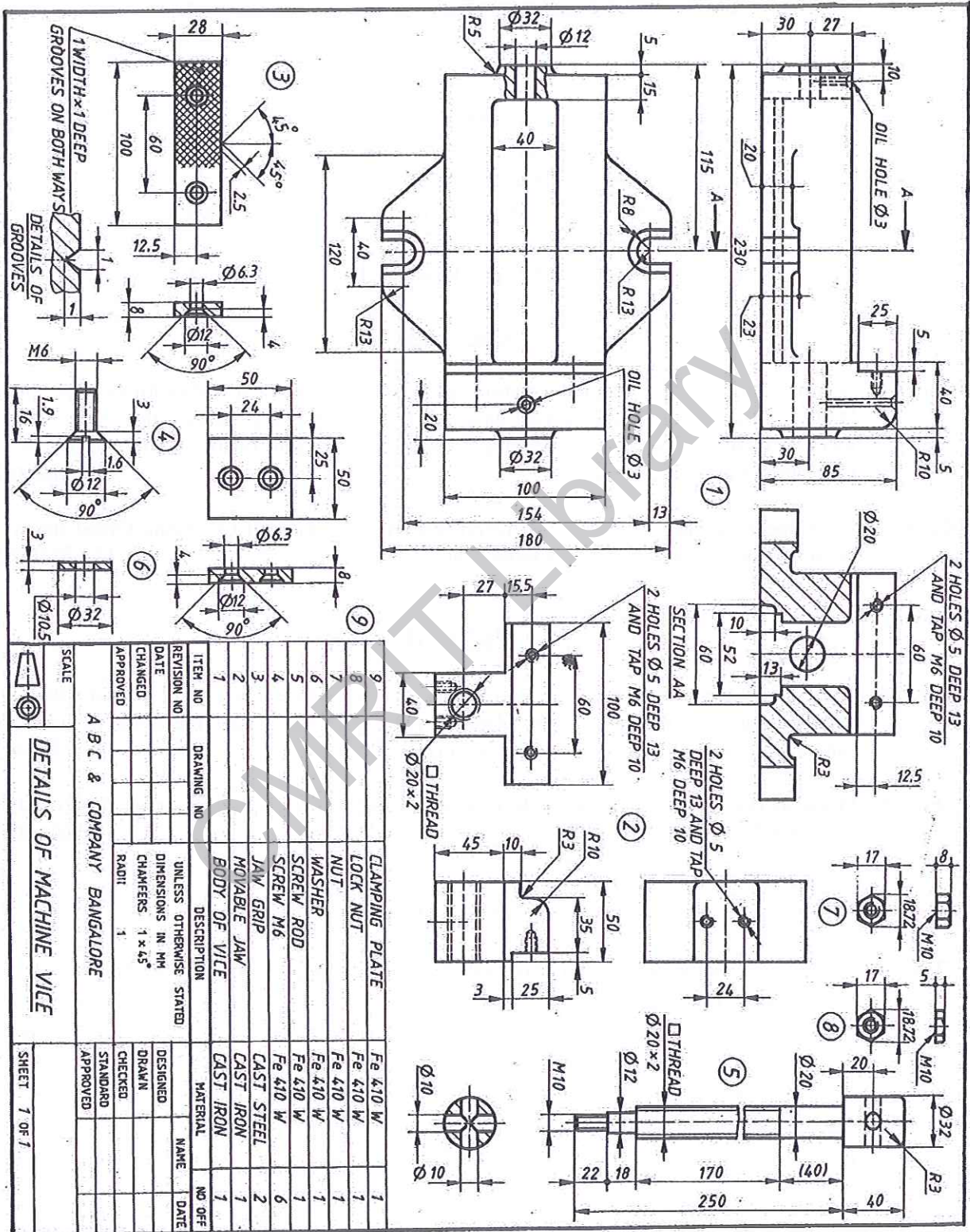


Figure 1. "MACHINE VICE".

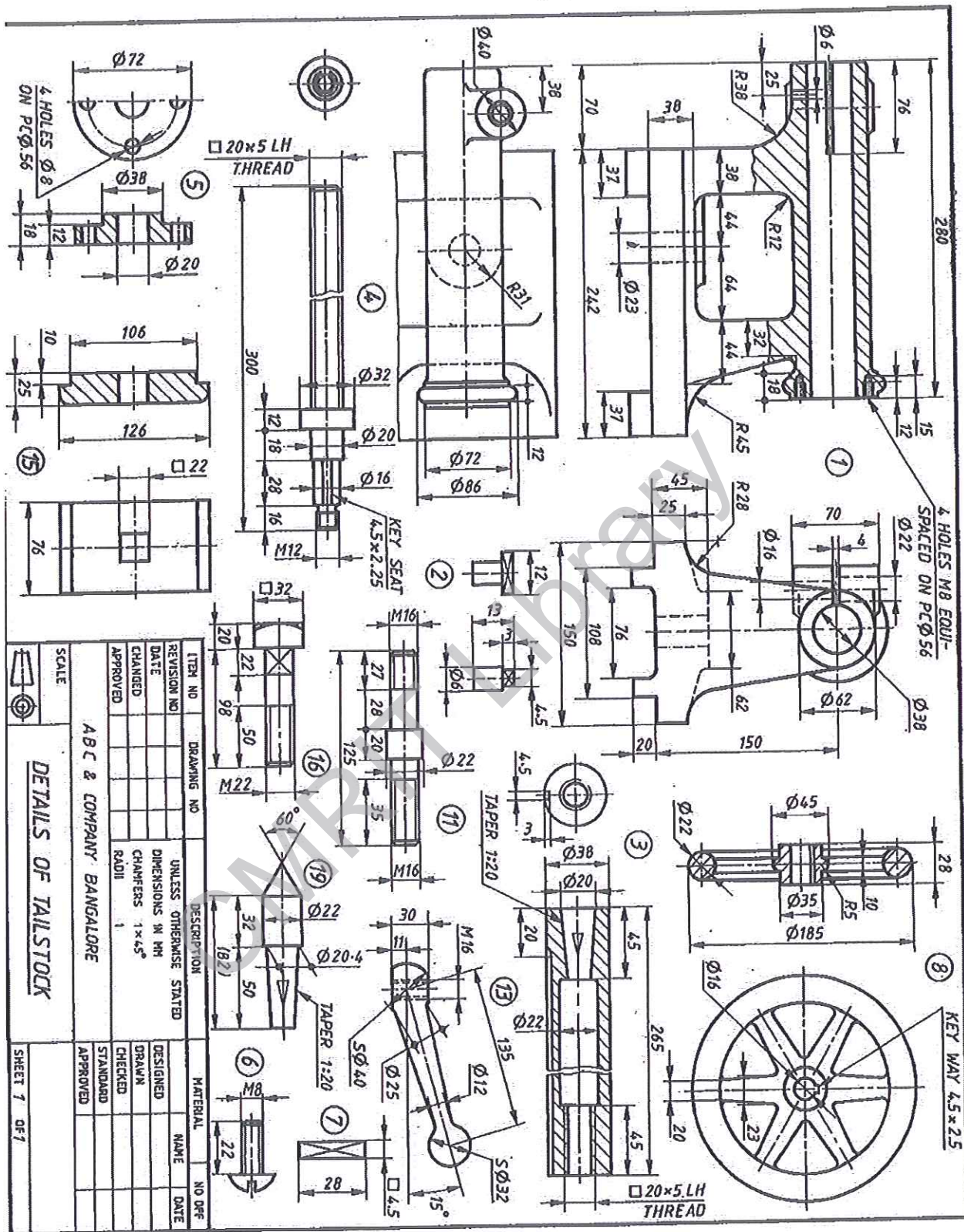


Figure 2. "TAIL - STOCK"