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# B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

## January / February 2025 Semester End Main Examinations

**Programme: B.E.**

**Semester: III**

**Branch: Mechanical Engineering**

**Duration: 3 hrs.**

**Course Code: 23ME3PCCMD / 22ME3AECMD**

**Max Marks: 100**

**Course: Computer Aided Machine Drawing**

**Instructions:** 1. Answer any TWO full questions, choosing one full question from each module.  
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.	MODULE - 1			CO	PO	Marks
	1	A square pyramid, base 40 mm side and axis 65 mm long, has its base on the HP and two edges of the base are equally inclined to the VP. It is cut by a section plane, perpendicular to the VP, inclined at $45^\circ$ to the HP and bisecting the axis. Draw its sectional top view and true shape of the section.				
	<b>OR</b>					
	2	A cone, diameter of base 50mm and axis is 60mm long is cut by a section plane perpendicular to the V.P. and parallel to one of the end generator and 5mm away from one of it. Draw its front view, sectional top view and true shape of the section.		CO1	PO2 PO5	<b>20</b>
MODULE - 3						
	3	The details of a MACHICE VICE are shown in Figure.1, Draw the following views of the assembled vice to 1:1 scale with the jaws spread to hold the work-piece of maximum size. 1. Half sectional front view showing fixed jaw in section. 2. Top view.		CO2 CO3 CO4	PO2 PO5	<b>80</b>
	<b>OR</b>					
	4	Figure 2 shows the details of a tail stock of a lathe. Assemble the parts and draw i) Front view in section ii) Right side view		CO2 CO3 CO4	PO2 PO5	<b>80</b>

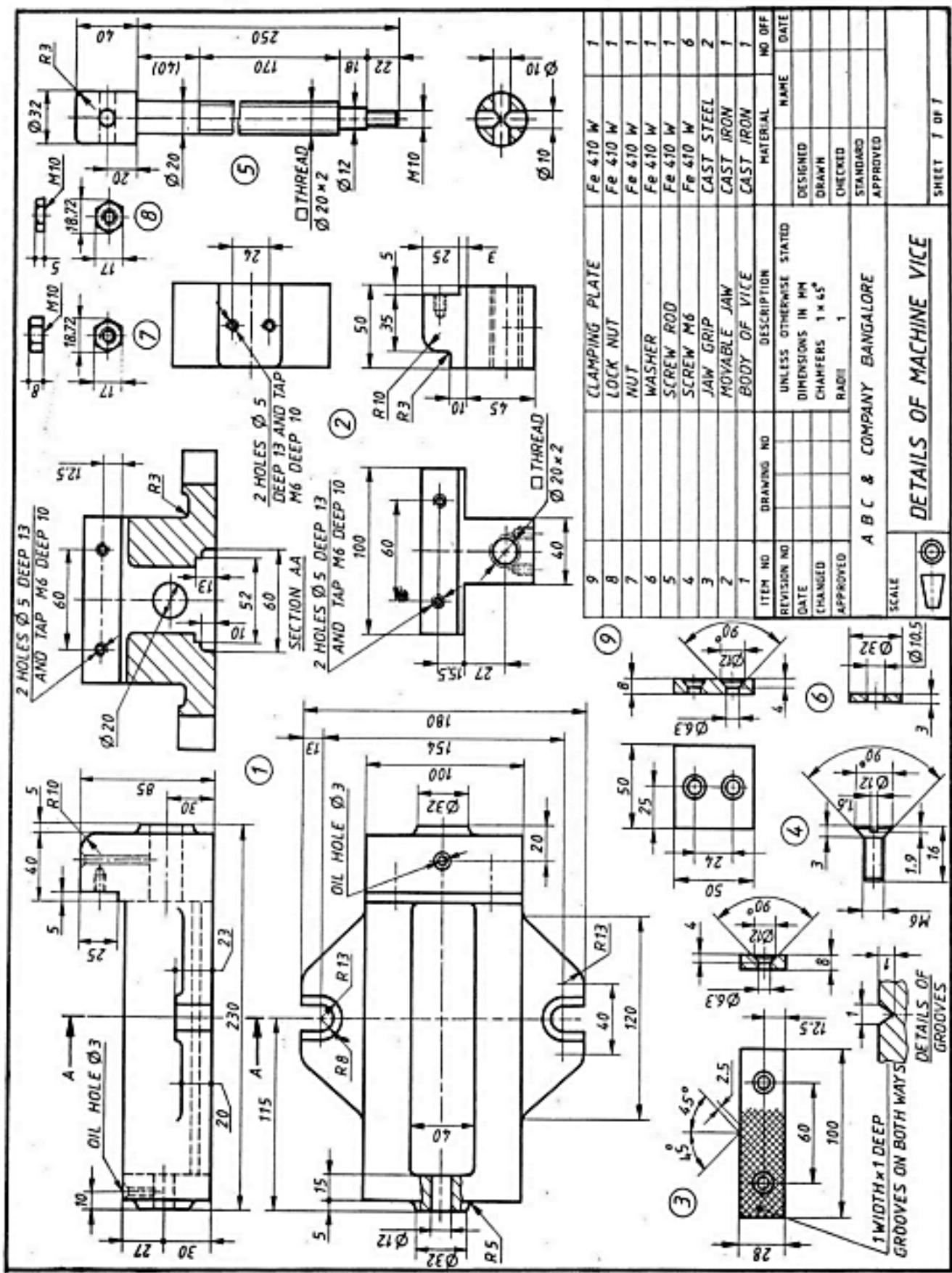


FIGURE 1: DETAILS OF MACHINE VICE

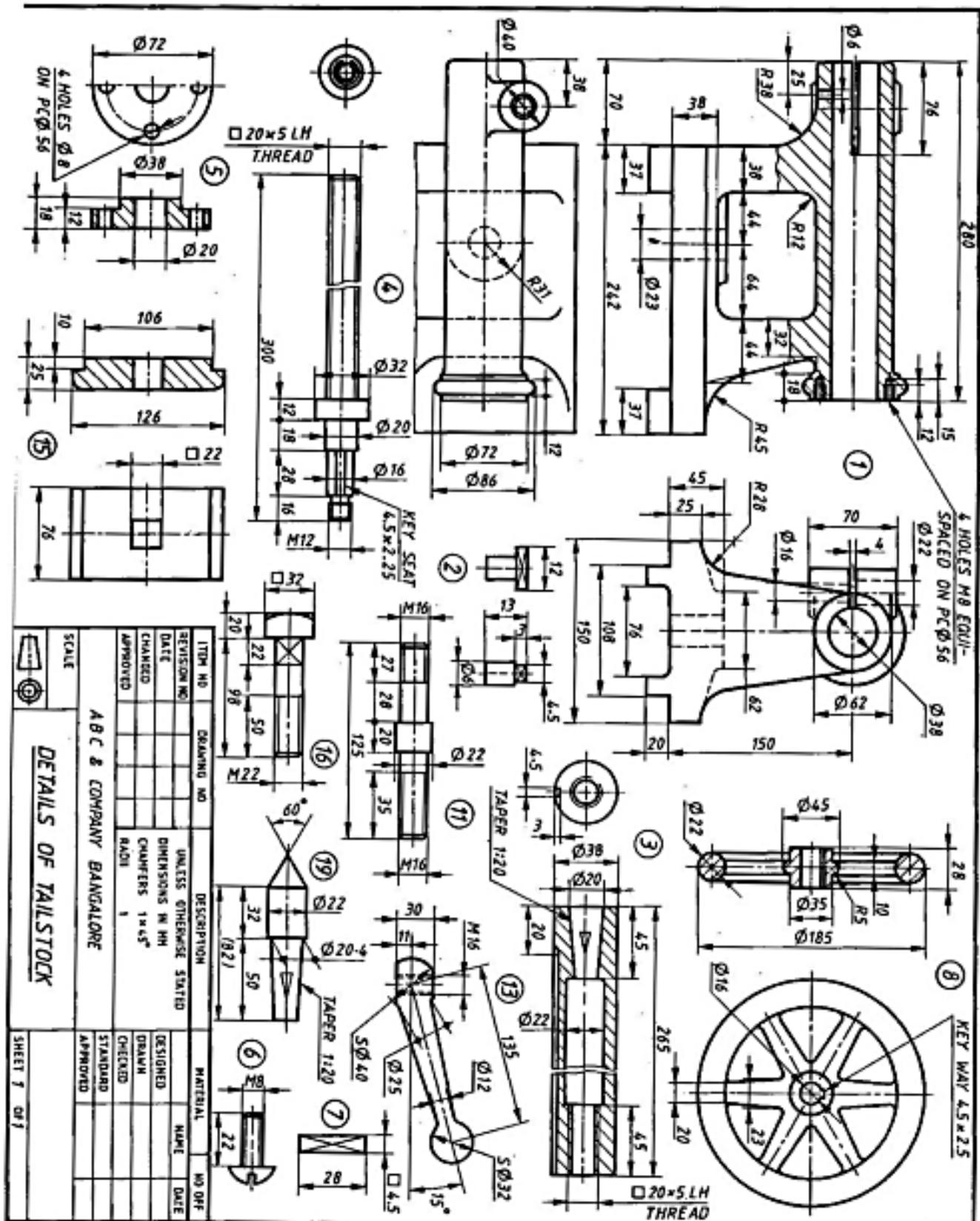


FIGURE 2: DETAILS OF TAILSTOCK

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