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

Autonomous Institute Affiliated to VTU

June / July 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 unit.
 2. Missing data if any may be suitably assumed.
 3. All dimensions are in mm.

MODULE - 1			CO	PO	Marks
1		A hexagonal prism of 60 mm height and 30 mm base side rests with its base on HP such that two of its rectangular faces make equal inclination with VP. The prism is cut by a section plane perpendicular to VP and inclined at 60^0 to HP. The section plane bisects the axis of prism. Draw the front view, sectional top view and the true shape of section.	<i>CO1</i>	<i>PO1</i>	20
OR					
2		A square pyramid of 50 mm edges of base and height 70 mm rests on HP with one of its base edges parallel to VP. It is cut by an inclined section plane in such a way that the true shape of section is a trapezium whose parallel sides measure 40 mm and 20 mm. Draw the front view, sectional top view and the true shape of section. Find the inclination of section plane with HP.	<i>CO1</i>	<i>PO1</i>	20
MODULE - 3					
3		The details of a Machine Vice are shown in Fig. 1. Draw the following views of the assembled vice to 1:1 scale. (a) Front view in full section (b) Top view	<i>CO2</i> <i>CO3</i>	<i>PO1</i>	60 20
OR					
4		The details of a Machine Vice are shown in Fig. 1. Draw the following views of the assembled vice to 1:1 scale. (a) Front view with top half in section (b) Top view	<i>CO2</i> <i>CO3</i>	<i>PO1</i>	60 20

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.

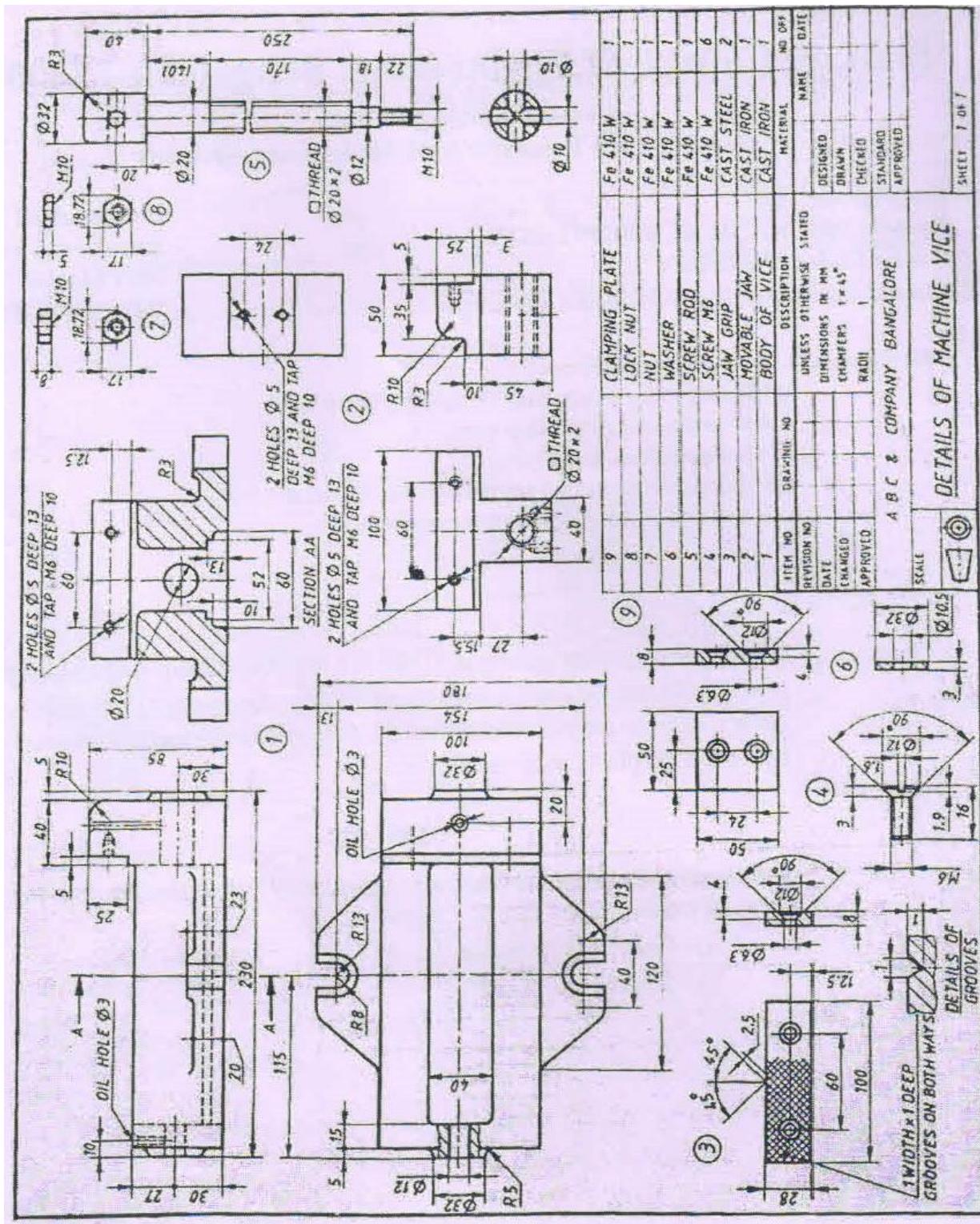


Fig.1 Details of Machine Vice
