U.S.N.										

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 FIVE full questions, choosing one full question from each unit.
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 cube of 30 mm edges is cut by a sectional plane so that the true shape of section is regular hexagon. Draw the projections of the cube and find the inclination of the sectional plane with HP. Also measure the length of the sides of the regular hexagon in the true shape of section.	*CO1*	*PO1*	**20**
		OR			
2		A right circular cone of base 60 mm diameter and 70 mm altitude is resting with its base on HP and it is cut by a plane parallel to one of its generator bisecting the axis. Draw the sectional top view and true shape of section. Name the curve obtained from the true shape.	*CO1*	*PO1*	**20**
		MODULE - 3			
3		Fig.1 shows the details of Machine Vice. Draw the following assembled views to 1:1 SCALE. Mark the section plane in the top view. (i) Front view showing Full section. (ii) Top view.	*CO2*	*PO3*	**80**
		OR			
4		Fig.2 shows the details of Petrol Engine Connecting rod. Draw the following assembled views to 1:1 SCALE. Mark the section plane in the Left Profile view. (i) Front view showing top half in section. (ii) Top view.	*CO2*	*PO3*	**80**

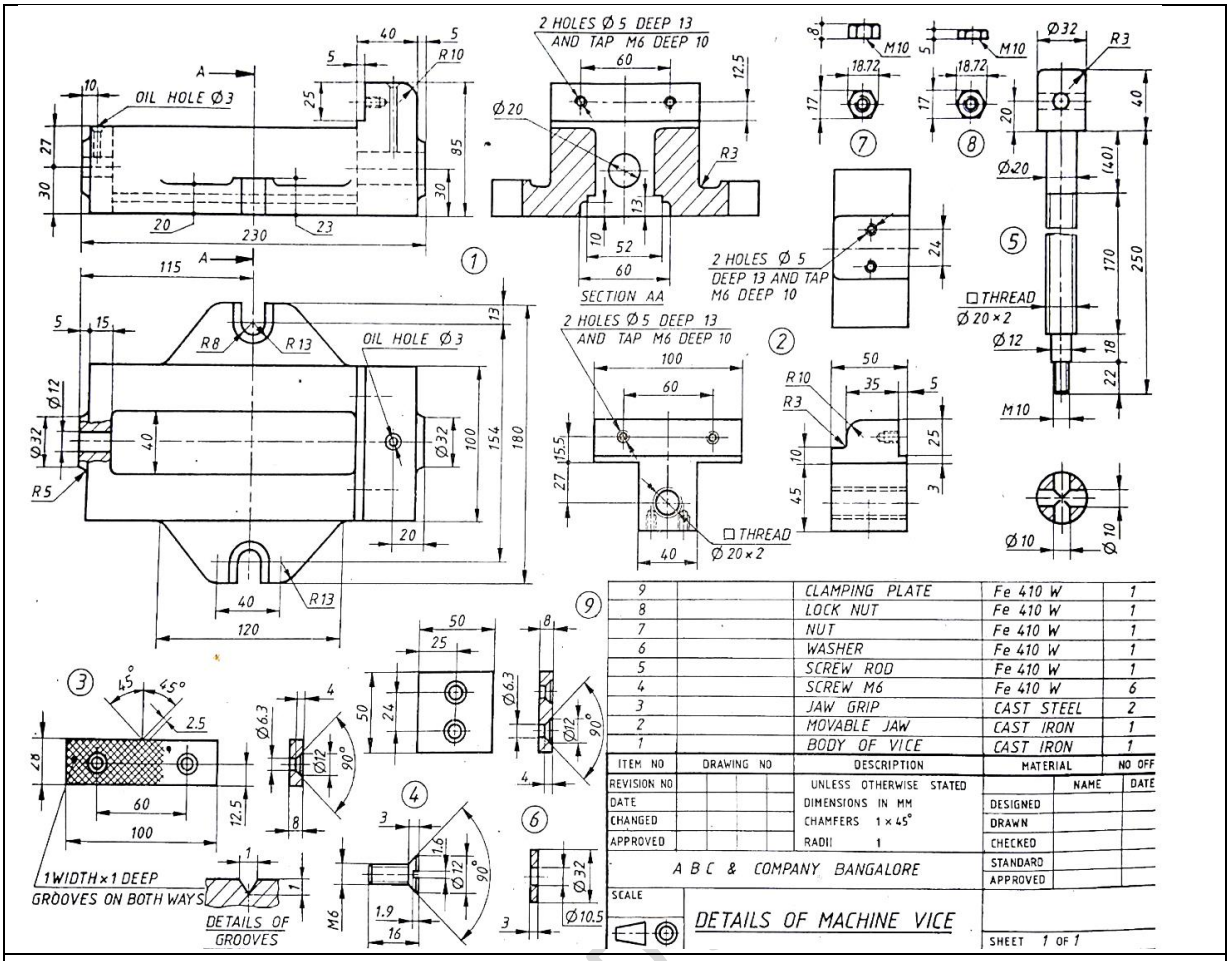

Fig. 1**:** Details of Machine Vice.

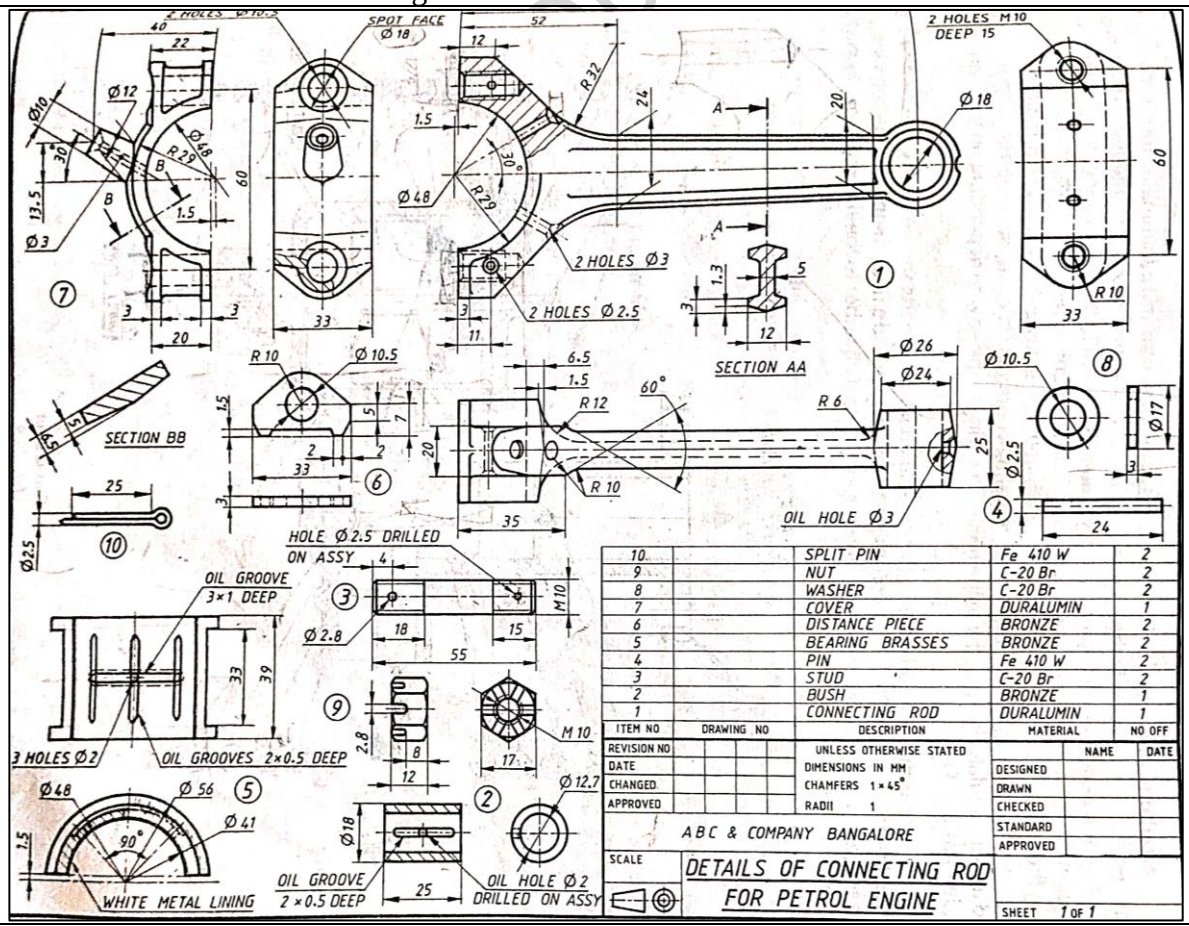

Fig. 2**:** Details of Petrol Engine Connecting Rod.

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