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, edge of base 32 mm is cut by a section plane such that the true shape of the section is a regular hexagon. Draw the front and top views of the cube and find the inclination of the section plane with HP. Also find the length of sides of the hexagon in the true shape of the section.	*CO1*	*PO1*	**20**
		OR			
2		A triangular pyramid of base sides 40 mm and axis length 60mm is resting on its base on HP with one of its base edges parallel to the VP and nearer to it. it is cut by a section plane both perpendicular to the VP and inclined to HP and meet at one of the base corners of the pyramid which is at equidistant from the other two base corners. One of the section planes is inclined at 45 degree to the HP and cuts the left slant edge while other section plane is inclined at 60 degree to HP and cuts the right end slant edge. Draw the front view and the combined true shape of the section	*CO1*	*PO1*	**20**
		MODULE - 3			
3		Details of a lathe tail stock are shown in figure1. Assemble the parts of the tailstock and draw the a) Sectional front view b) left side view	*CO2*	*PO2*	**80**
		OR			
4		Details of a connecting rod are shown in figure 2. Assemble the parts of the connecting rod and draw the a) Half Sectional front view b) top view	*CO2*	*PO2*	**80**

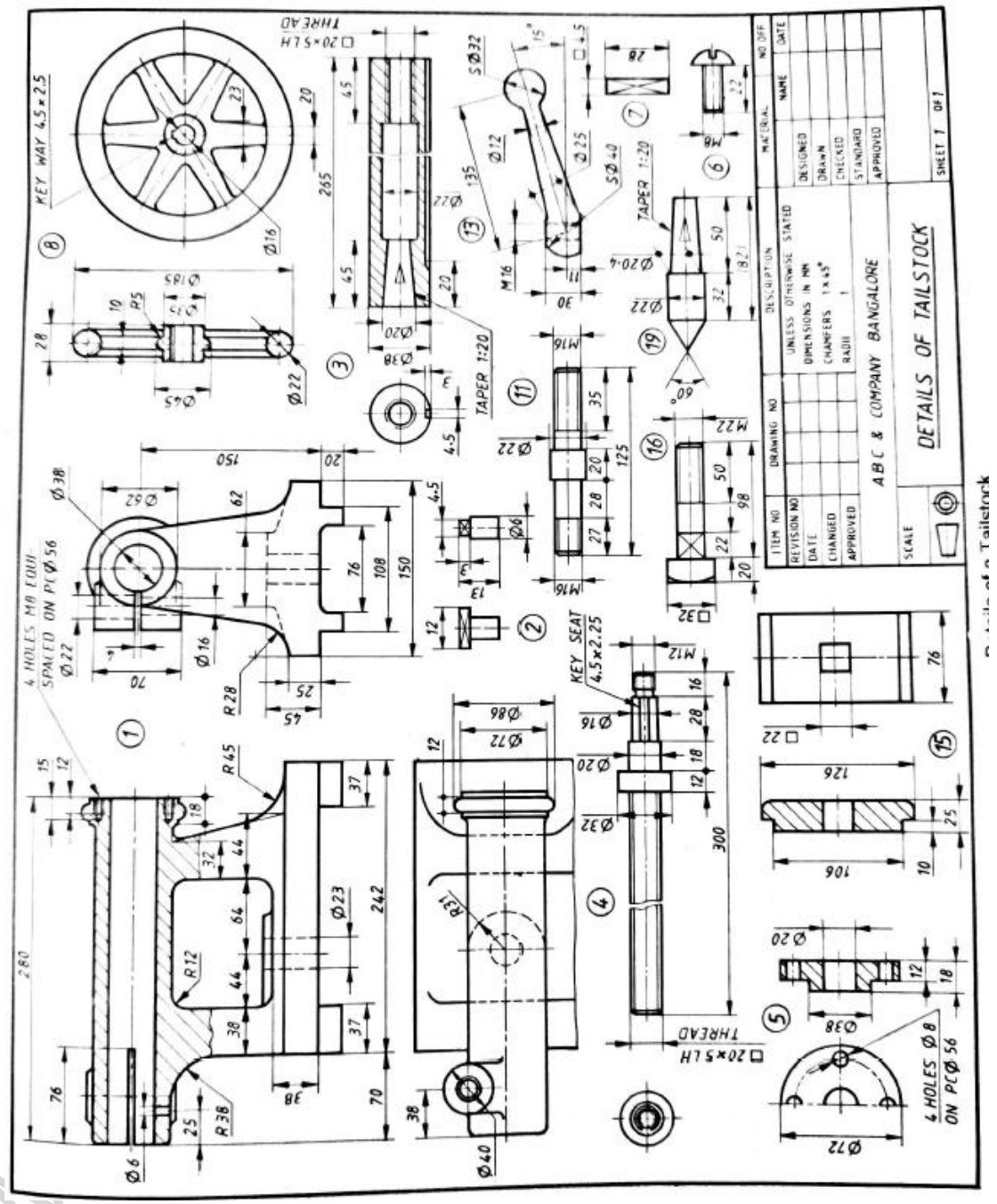
			MODULE – 3
	3		

fig1

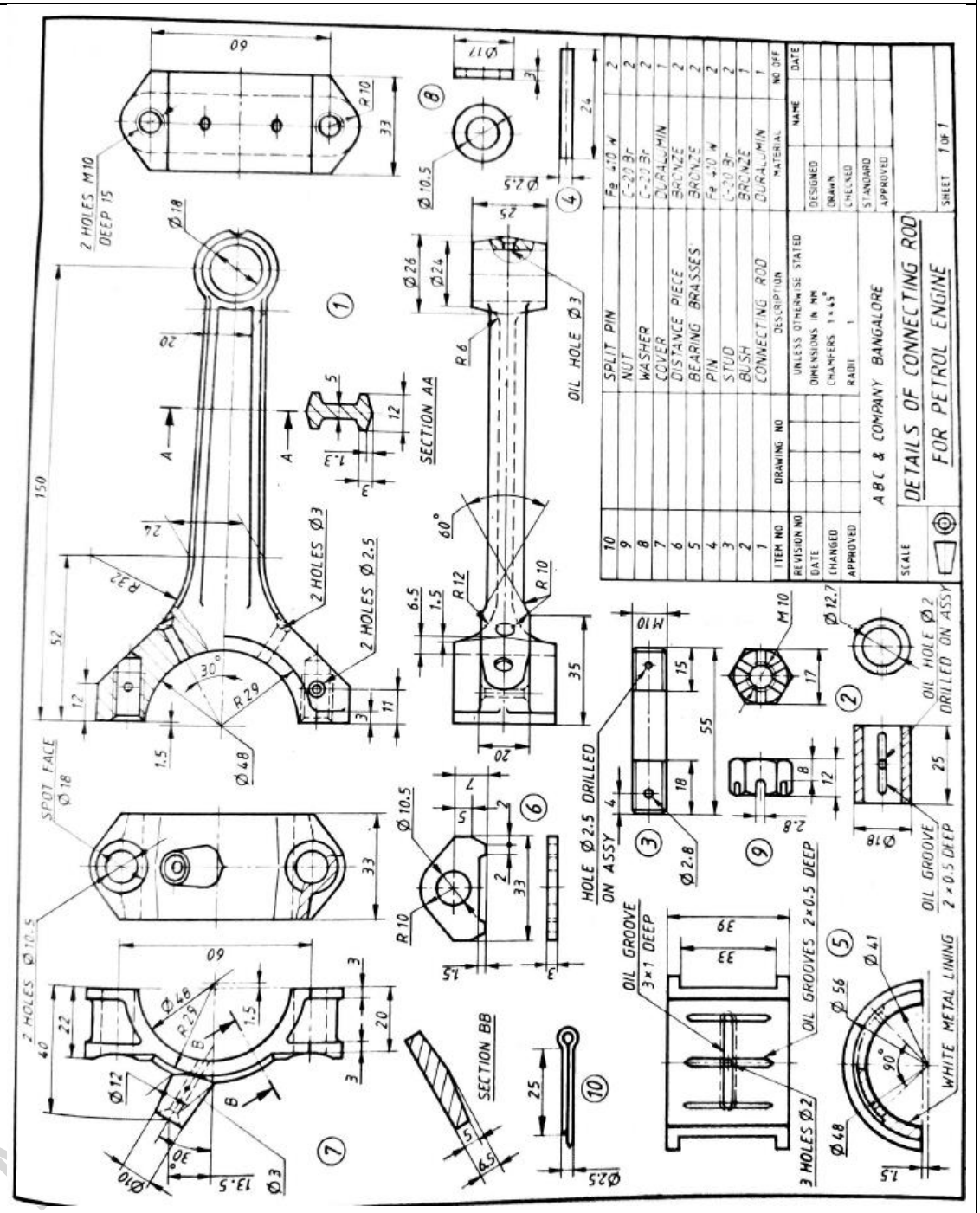
			MODULE – 3	
	4			

fig2

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