U.S.N.										

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

Autonomous Institute Affiliated to VTU

June 2025 Semester End Main Examinations

Programme: B.E. **Semester: III**
Branch: Mechanical Engineering **Duration: 3 hrs.**
Course Code: 19ME3DCCMD **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.

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.

			UNIT - I	*CO*	*PO*	Marks
1			A cube of 30 mm edges rests with one of its square faces on H.P. such that one of its vertical square faces is inclined at 30^o to V.P. A section plane perpendicular to V.P. and inclined at 60^o to H.P. passes through a point on the vertical axis 5 mm below its top end. Draw its sectional top view, front view, and the true shape of section.	*CO1*	*PO1* *PO5*	**20**
			OR			
2			A square pyramid of 50mm edges of base and height 70mm rests on its base 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. What is the inclination of the section plane with HP?	*CO1*	*PO1* *PO5*	**20**
			UNIT - II			
3			The details of a PETROL ENGINE CONNECTING ROD are shown in Figure 1 below. Draw the following assembled views of the connecting rod with its axis horizontal to 2:1 scale 1. Front view with top half in section 2.Top view. 3. Side view looking from the big end.	*CO2*	*PO1* *PO5*	**80**
			OR			

	4		Views of the parts of a Plummer Block are shown in Fig. 2. Draw to 1:1 scale, the following views of the bearing using CAD package. a) Front view showing right half in section b) Top view	*CO2*	*PO1* *PO5*	**80**

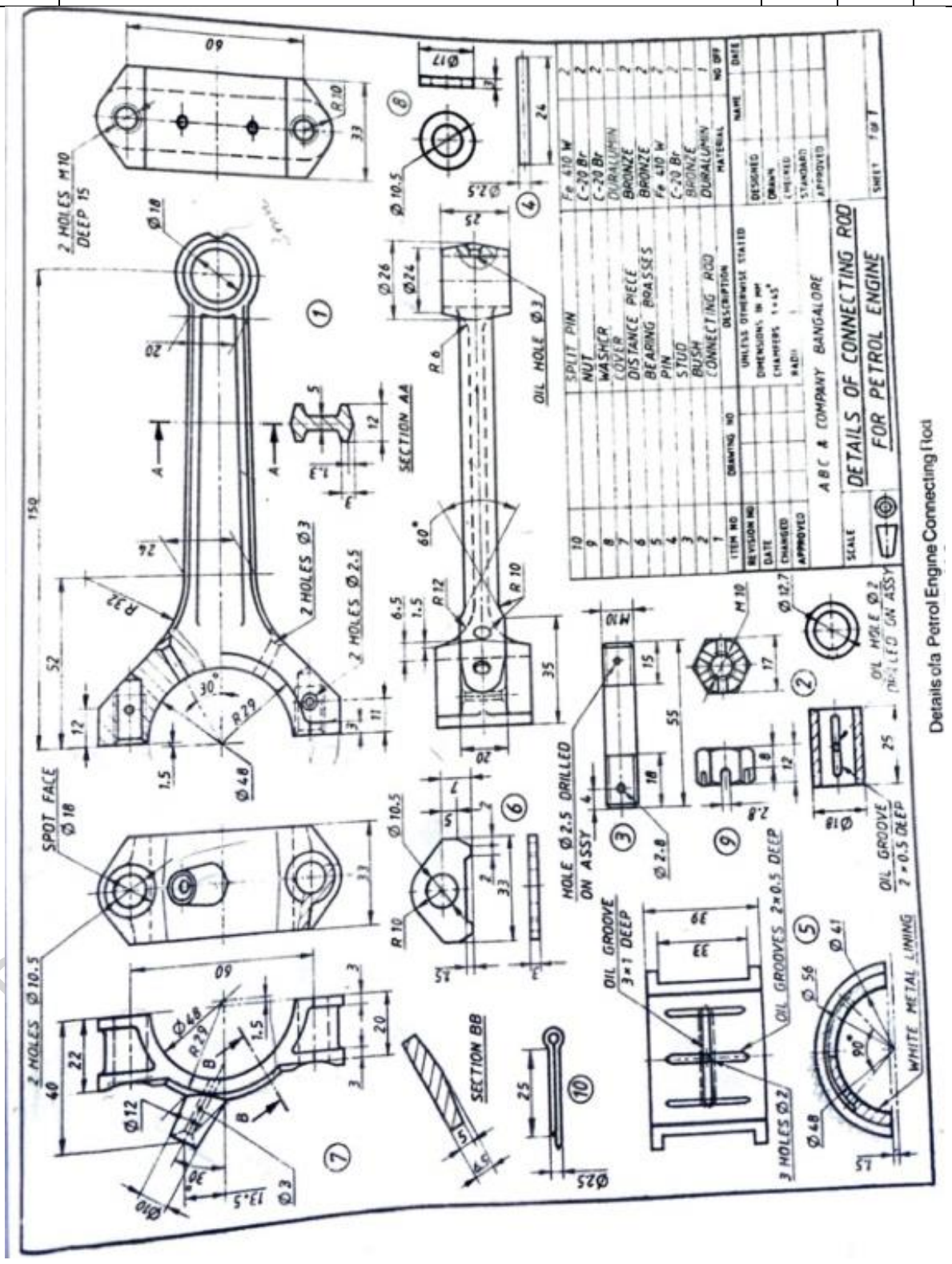

Figure: 1

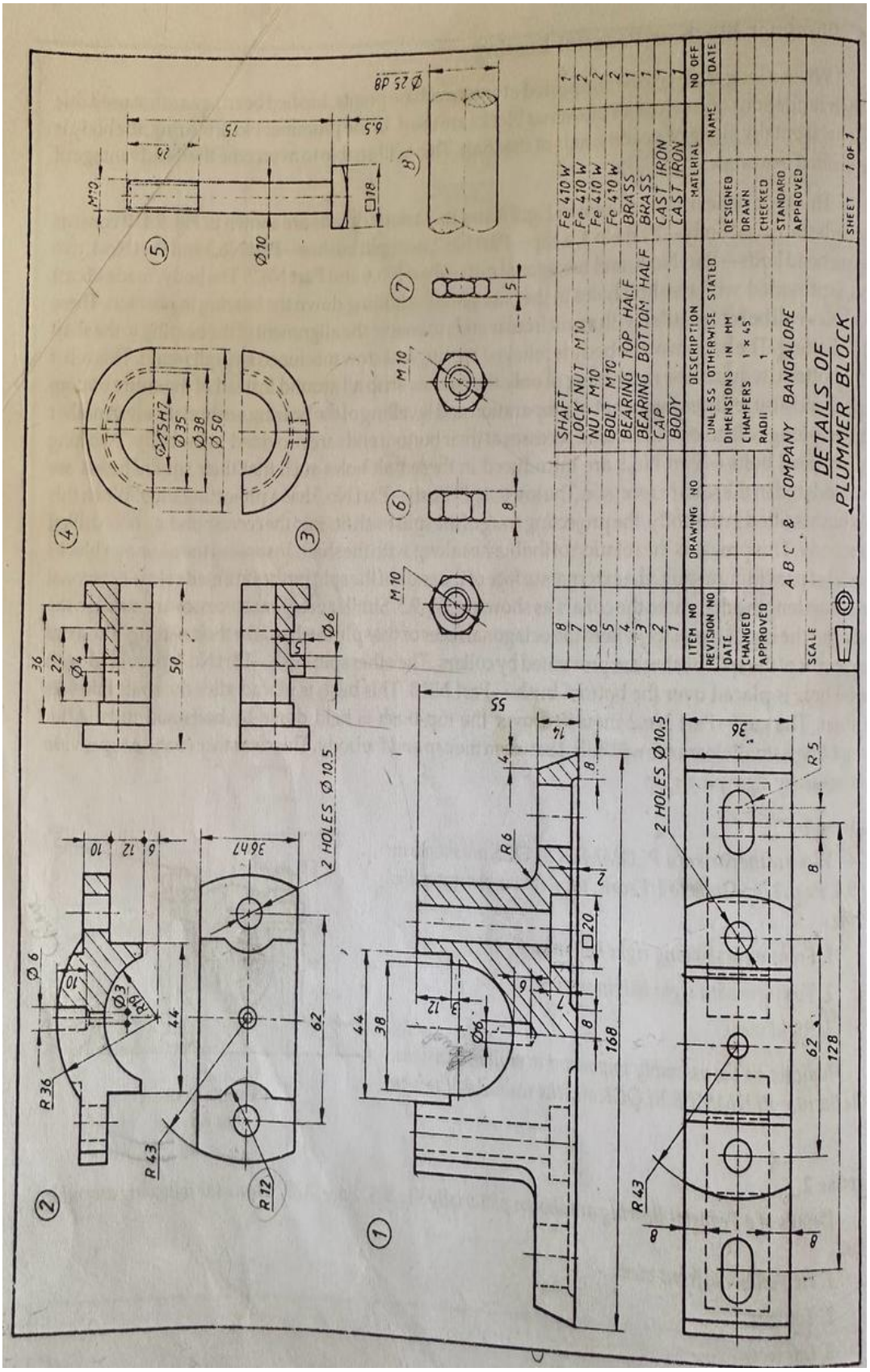
DETAILS OF
PLUMMER BLOCK
A B C & COMPANY BANGALORE
SHAFT
LOCK NUT M10
NUT M10
BOLT M10
BEARING TOP HALF
BEARING BOTTOM HALF
CAP
BODY
2 HOLES Ø10.5
R43
R36
R12
R6
R5

Figure: 2

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