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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.

		MODULE - I	<i>CO</i>	<i>PO</i>	Marks
1		A cone, base 60mm diameter and axis 70mm long is resting on HP on its base. It is cut by a section plane perpendicular to VP and inclined at 75° to HP, to cut the axis of the cone at a point 20mm above the base. Draw its front view, sectional top view and true shape of section. Name the true shape.	<i>CO1</i>	<i>PO1</i>	20
		OR			
2		A pentagonal pyramid of 20mm edge of base and 40mm high stands vertically with its base on HP and an edge of the base perpendicular to VP. A section plane perpendicular to HP and inclined 30° to VP cuts the pyramid such that it passes through the pyramid at a shortest distance of 5mm from its axis and in front of it. Draw its sectional FV and true shape.	<i>CO1</i>	<i>PO1</i>	20
		MODULE - 3			
3		Fig.1 shows the details of a petrol engine connecting rod. Assemble the parts and draw the following views. i) Front view ii) Top view	<i>CO2</i>	<i>PO2</i>	80
		OR			
4		Fig.1 shows the details of a petrol engine connecting rod. Assemble the parts and draw the following views. i) Front view with top half in section ii) Side view	<i>CO2</i>	<i>PO2</i>	80

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.

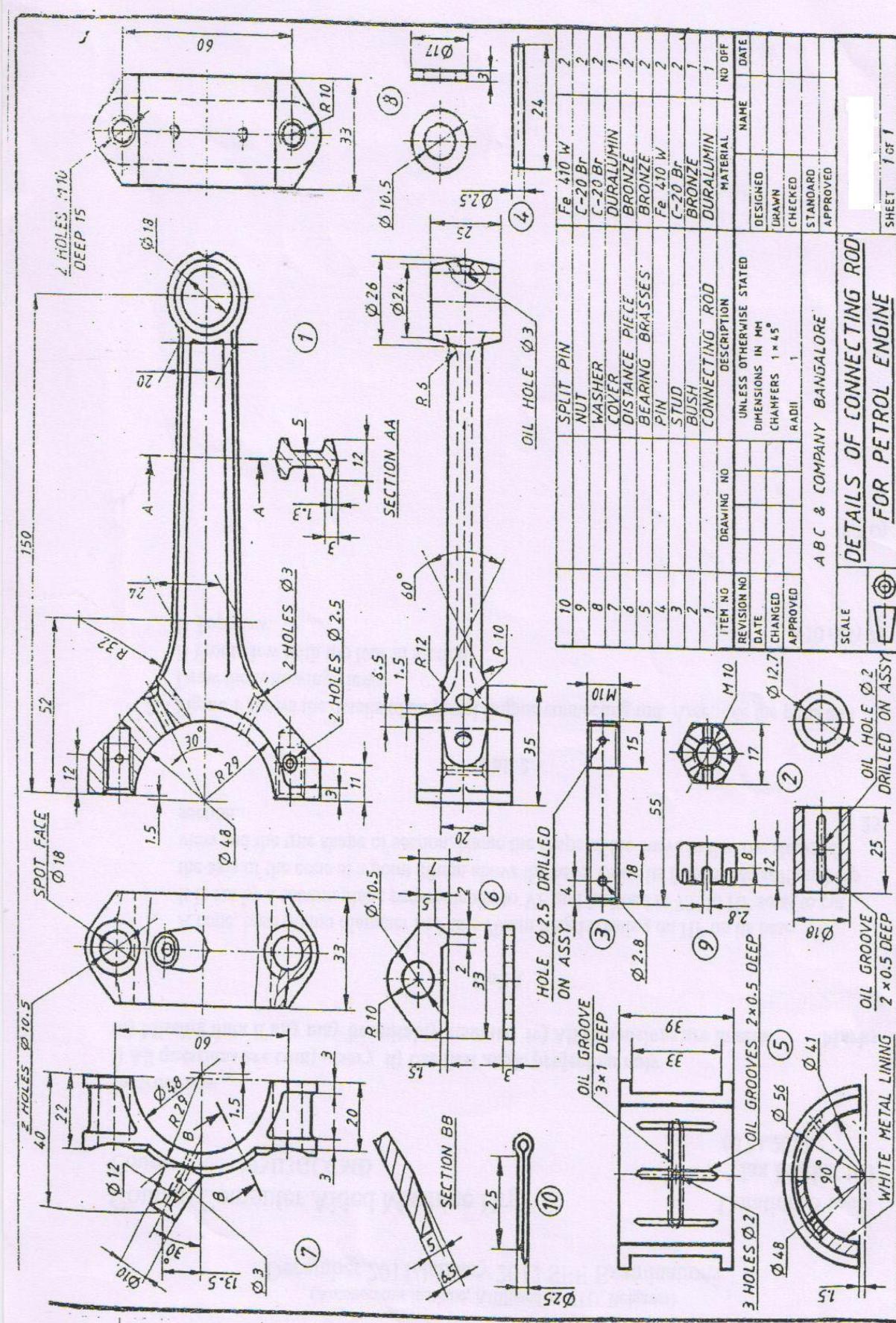


Fig 1. Details of petrol engine connecting rod