U.S.N.										

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

Autonomous Institute Affiliated to VTU

February 2025 Semester End Main Examinations

Programme: B.E. **Semester: III**

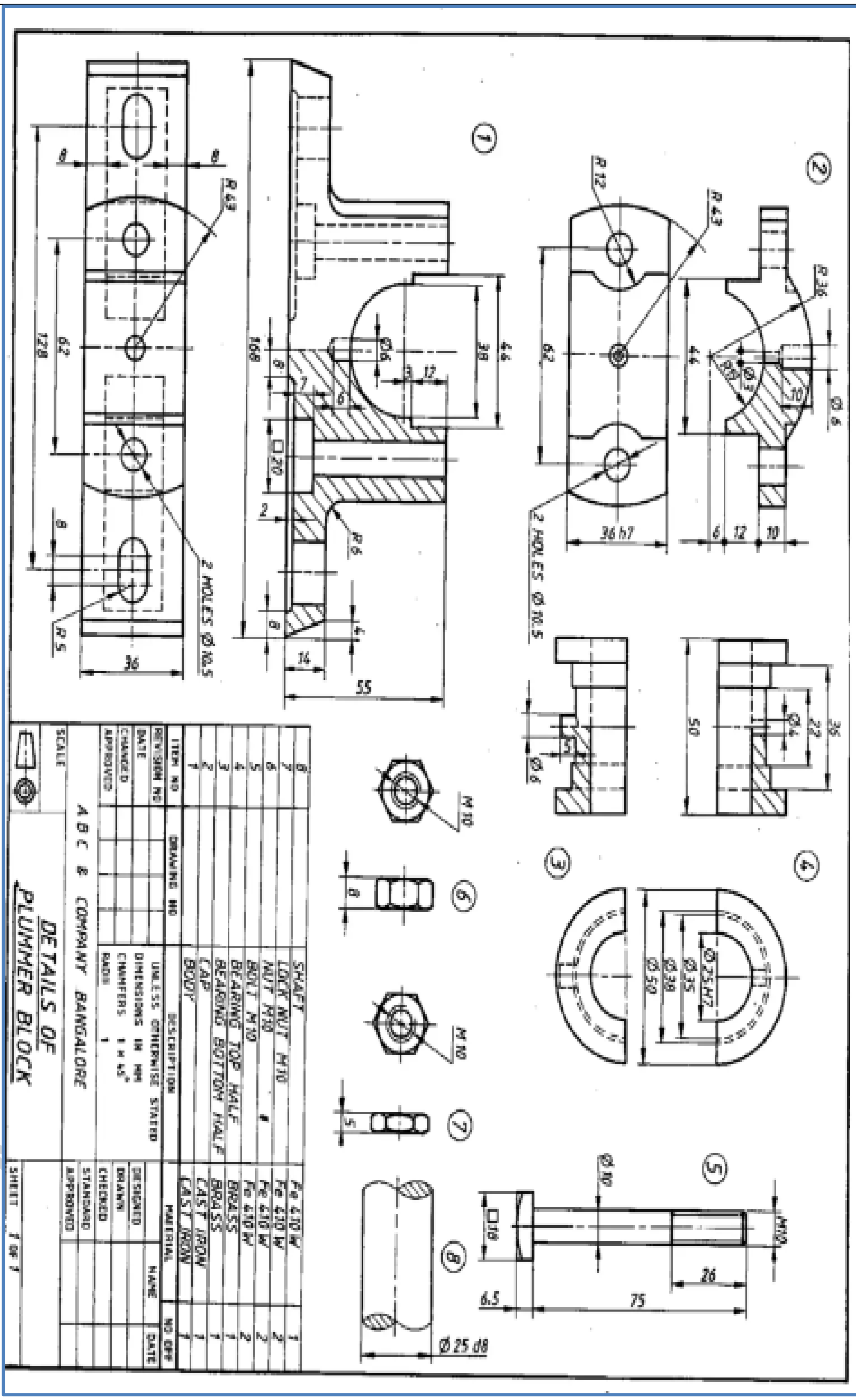
Branch: Industrial Engineering and Management **Duration: 3 hrs.**

Course Code: 23IM3PCCMD **Max Marks: 100**

Course: Computer Aided Machine Drawing

Instructions: 1. Answer all questions.
2. Missing data, if any, may be suitably assumed.

			PART-A	CO	PO	Marks
	1		A cube of side 30 mm rests on the HP on its end with the vertical faces equally inclined to the VP. It is cut by a plane perpendicular to the VP and inclined at 30° to the HP meeting the axis at 25 mm above the base. Draw its front view, sectional top view and the true shape of the section	*CO1*	*PO1*	**20**
	2		Draw 1:2 scale the top and sectional front views of a single riveted but joint with double cover plate of equal width. The thickness of the main plate is 9mm. Calculate the thickness of the cover plates and Show at least three rivets in each row. Indicate all the dimensions, Use snap head rivets	*CO2*	*PO2* *PO3*	**20**
			PART-B			
	3		Details of the PLUMMER BLOCK are shown in the figure below. Draw the following views of the Plummer block bearing 1. Front view showing right half in section 2. Top view with right half in section 3. Right view Indicate on the assembly important overall dimensions, write the title PLUMMER BLOCK and the scale. Add the part list. PTO	*CO3*	*PO2* *PO5* *PO9*	**60**


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
Fe 410 W
BRASS
CAST IRON
ITEM NO
DRAWING NO
DESCRIPTION
MATERIAL
NO OFF
UNLESS OTHERWISE STATED
DIMENSIONS IN MM
CHAMFERS 1 x 45°
SCALE
DESIGNED
DRAWN
CHECKED
STANDARD
APPROVED
SHEET 1 OF 1
2 HOLES Ø 10.5
Ø 25 d8
36 h7

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