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 30mm edges rests with a square face on HP such that one of its vertical square faces is inclined at 30° to VP. A section plane perpendicular to VP and inclined at 60° to HP passes through a point on the axis 5mm below its top end. Draw the sectional top view, front view and the true shape of section.	CO2	PO3	**20**
	2		Draw to 1:2 scale the top and the sectional front views of a double riveted lap joint with Zig-Zag riveting. The thickness of the plates is 9 mm. Show at least three rivets in each row. Indicate all the dimensions. Use Snap head rivet.	CO2	PO3	**20**
			PART B			
	3		The parts details of Simple eccentric are given below. Assemble the parts and draw 1) Full sectional front view 2) Top View	CO2	PO3	**60**

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.

ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
7	LOCK NUT M12	Fe - 410 W	2
6	NUT M12	Fe - 410 W	2
5	CHEESE HEAD BOLT	Fe - 410 W	2
4	SHIM	BRASS	2
3	SHEAVE	CAST STEEL	1
2	STRAP NO.2	CAST IRON	1
1	STRAP NO.1	CAST IRON	1

Parts details of simple eccentric

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