

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

Autonomous Institute Affiliated to VTU

September / October 2023 Supplementary Examinations

Programme: B.E.
Branch: Industrial Engineering & Management
Course Code: 19IM3DCCMD
Course: Computer Aided Machine Drawing

Semester: III
Duration: 3 hrs.
Max Marks: 100
Date: 22.09.2023

- Instructions:**
1. Answer all questions.
 2. Use first angle projection only.
 3. Missing data if any may be suitably assumed.
 4. All dimensions are in mm.
 5. Important dimensions are to be shown in the assembly.
 6. A suitable scale, if necessary, may be taken.

UNIT - I

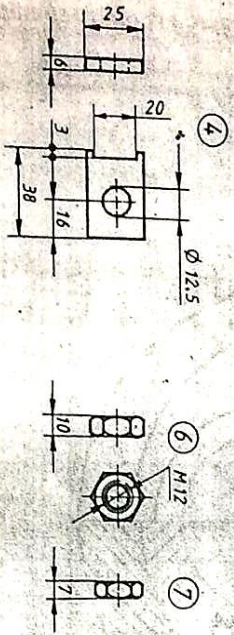
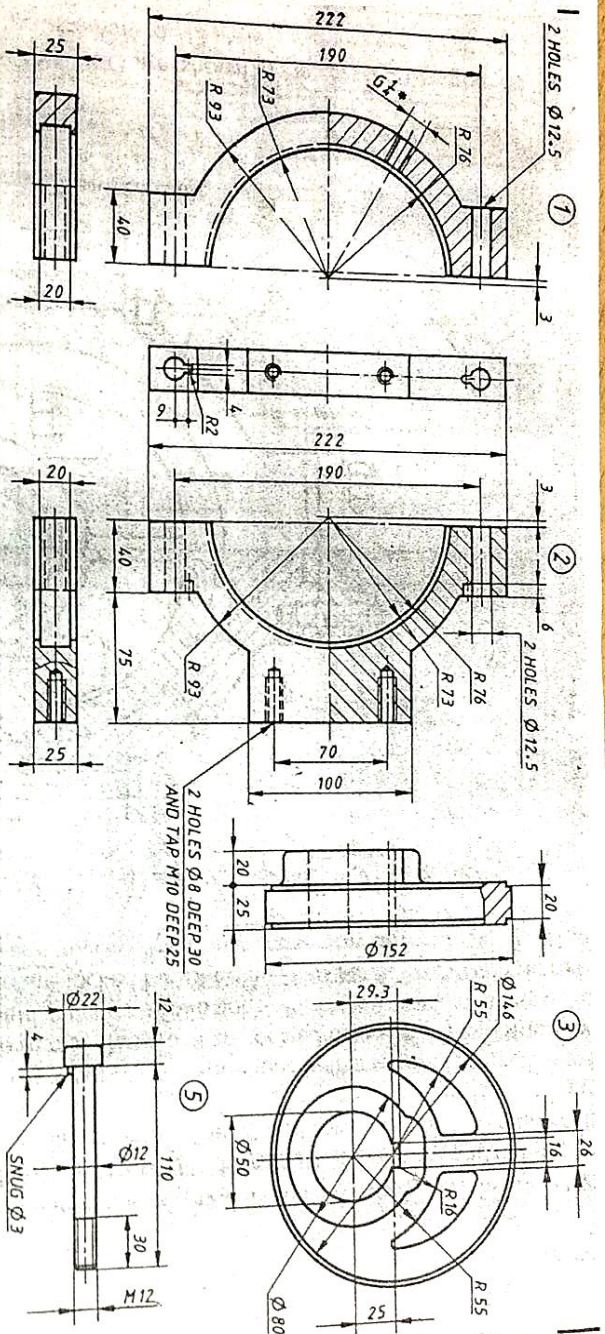
- 1 A square prism of 45 mm side of base height 90 mm rests with its base on HP such that one of the rectangular faces is inclined at 30 deg. to VP and nearer to it. A section plane perpendicular to VP and inclined at 60 deg. to HP passes through a point on the axis at a height of 70 mm. Draw the front view, sectional top view and true shape of the section. **20**

UNIT - II

- 2 Draw the sectional front view and top view of a double riveted butt joint with single cover plate and chain riveting to connect two plates of 10 mm thickness. Use snap head rivets. Show all calculations and mark the dimensions. Show at least 3 rivets in each row. **20**

UNIT - III

- 3 Simple Eccentric details are shown in Fig. 1 below. Draw the following Assembled views to 1:2 scale. Include all necessary information / details.
- i) Front view in section
 - ii) Top view
 - iii) Left view
- 60**



ITEM NO	DRAWING NO	DESCRIPTION	UNLESS OTHERWISE STATED	DESIGNED	NAME	DATE
1		LOCK NUT M12	Fe-410 W	2		
2		NUT M12	Fe-410 W	2		
3		CHEESE HEAD BOLT	Fe-410 W	2		
4		SHIM	BRASS	2		
5		SHEAVE	CAST STEEL	1		
6		STRAP NO. 2	CAST IRON	1		
7		STRAP NO. 1	CAST IRON	1		
8		UNLESS OTHERWISE STATED				
9		DIMENSIONS IN MM				
10		CHAMFERS 1:45				
11		RADII				
12		APPROVED				
13		DESIGNED				
14		DRAWN				
15		CHECKED				
16		STANDARD				
17		APPROVED				

B.M.S. COLLEGE OF ENGINEERING
 DETAILS OF
 SIMPLE ECCENTRIC
 SCALE
 SHEET 1 OF 1

* MAJOR $\phi 13.57$
 MINOR $\phi 11.445$
