U.S.N.										

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

Autonomous Institute Affiliated to VTU

April 2024 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 all questions.
2. Missing data, if any, may suitably be assumed.
3. Use first angle projection only.
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 pyramid, base 40 mm side and axis 65 mm long, has its base on the   **20**
HP with two edges of the base perpendicular to the VP. It is cut by a section
plane, perpendicular to the VP, inclined at 45º to the HP and bisecting the
axis. Draw its sectional top view and true shape of the section.

UNIT - II

2 Figure 1 shows the details of a Plummer block. Assemble the parts and draw   **80**
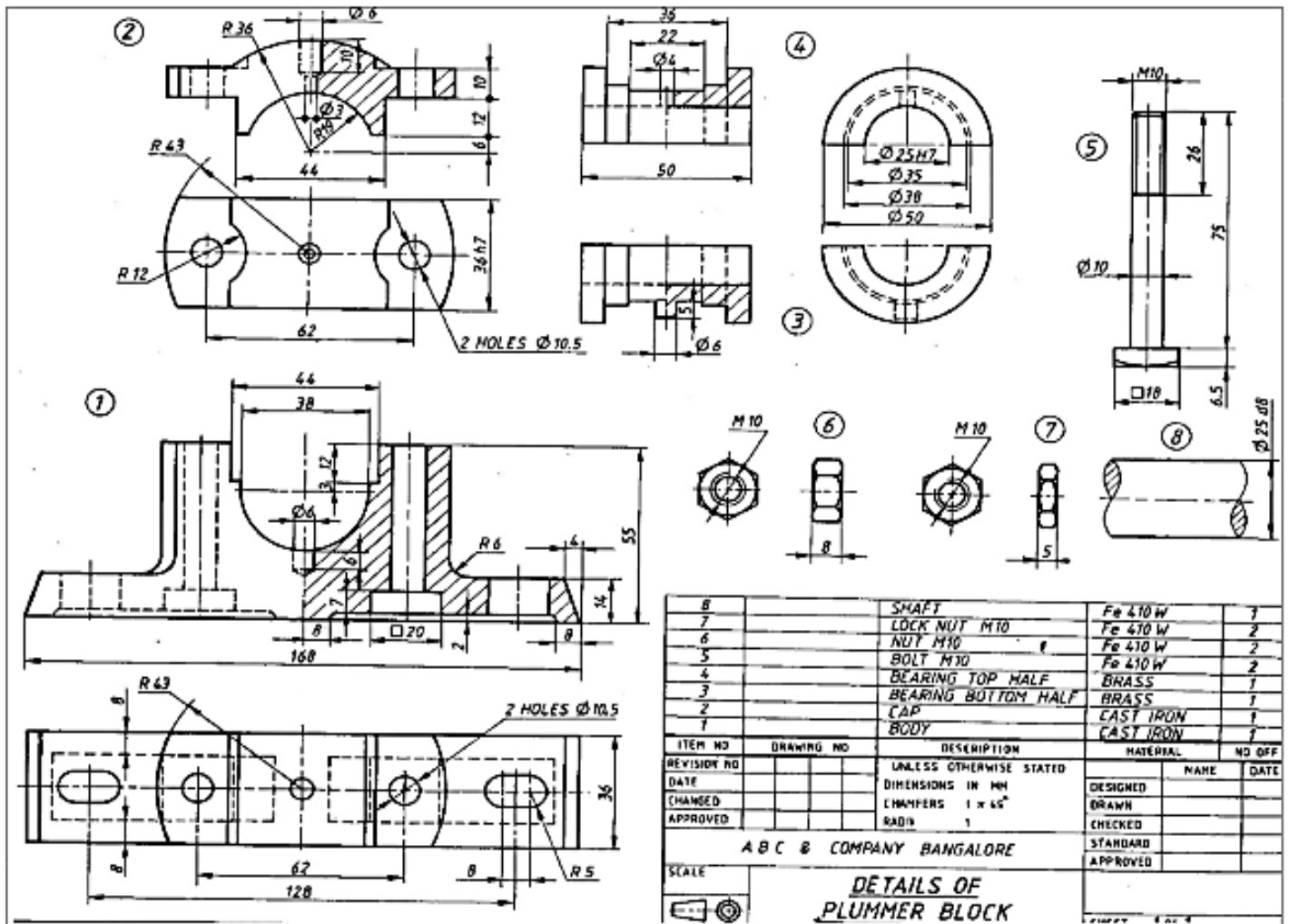the following views of the assembly. 1. Front view showing right half in
section 2. Top view.

Figure 1: Details of Plummer Block

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Table (title block):

8		SHAFT	Fe 410 W	1
7		LOCK NUT M10	Fe 410 W	2
6		NUT M10	Fe 410 W	2
5		BOLT M10	Fe 410 W	2
4		BEARING TOP HALF	BRASS	1
3		BEARING BOTTOM HALF	BRASS	1
2		CAP	CAST IRON	1
1		BODY	CAST IRON	1
ITEM NO	DRAWING NO	DESCRIPTION	MATERIAL	NO OFF

REVISION NO		UNLESS OTHERWISE STATED		NAME	DATE
DATE		DIMENSIONS IN MM			
CHANGED		CHAMFERS 1 x 45°	DESIGNED		
APPROVED		RADII 1	DRAWN		
			CHECKED		
A B C & COMPANY BANGALORE			STANDARD		
			APPROVED		
SCALE		DETAILS OF PLUMMER BLOCK			

Labels on drawing: R36, Ø6, R43, R12, 44, 62, 36 h7, 2 HOLES Ø10.5, Ø3, Ø4, 35, 22, 50, Ø6, Ø25H7, Ø35, Ø38, Ø50, M10, 26, 75, Ø10, □18, 6.5, Ø25 d8, 38, Ø6, R6, 55, 14, 168, □20, R43, 2 HOLES Ø10.5, 62, 128, R5, 36, M10, 8, 5