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

**Autonomous Institute Affiliated to VTU**

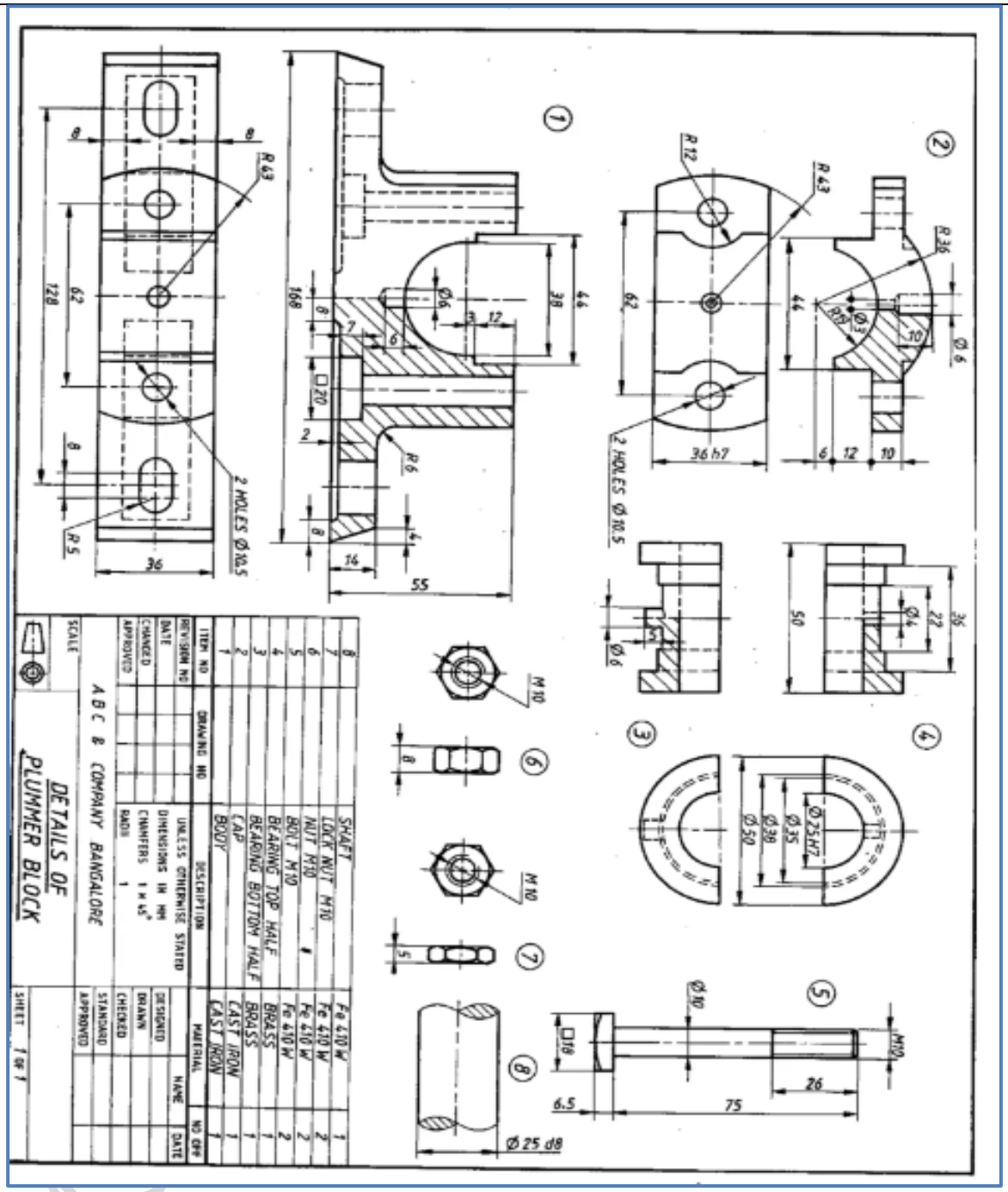
## April 2024 Semester End Main Examinations

**Programme: B.E.** **Semester: III**
**Branch: Industrial Engineering and Management** **Duration: 3 hrs.**
**Course Code: 23IM3PCCMD** **Max Marks: 100**
**Course: Computer Aided Machine Drawing**

**Instructions**: 1. Answer THREE full questions, choosing question from each unit.
2. Missing data, if any, may be suitably assumed.

**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.

| | | UNIT - I | 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*<br>*CO2* | *PO2*<br>*PO3*<br>*PO5* | **20** |
| | | **UNIT IV** | | | |
| 2 | | Draw 1:2 scale the top and sectional front iews of a double rivetted lap joint with Zig Zag riveting. The thickness of the plate is 9mm. show at least three rivets in each row. Indicate all the dimensions, Use snap head rivets | *CO1*<br>*CO2* | *PO2*<br>*PO3*<br>*PO5* | **20** |
| | | **UNIT - V** | | | |
| 3 | | Details of the PLUMMER BLOCK are shown in the figure below. Draw the following views of the Plummer block bearing<br>1. Front view showing right half in section<br>2. Top view with right half in section<br>3. Right view<br>Indicate on the assembly important overall dimensions, write the title PLUMMER BLOCK and the scale. Add the part list.<br><br>PTO | *CO2*<br>*CO4* | *PO2*<br>*PO3*<br>*PO5*<br>*PO12* | **60** |


DETAILS OF
PLUMMER BLOCK
A B C & COMPANY BANGALORE
SCALE
SHEET 1 OF 1
DRAWING NO
DESCRIPTION
MATERIAL
NO OFF
NAME
DATE
ITEM NO
REVISION NO
DATE
CHANGED
APPROVED
UNLESS OTHERWISE STATED
DIMENSIONS IN MM
CHAMFERS 1 x 45°
RADII 1
DESIGNED
DRAWN
CHECKED
STANDARD
APPROVED
SHAFT
LOCK NUT M10
NUT M10
BOLT M10
BEARING TOP HALF
BEARING BOTTOM HALF
CAP
BODY
Fe 410 W
Fe 410 W
Fe 410 W
Fe 410 W
BRASS
BRASS
CAST IRON
CAST IRON
2 HOLES Ø10.5
2 HOLES Ø10.5
M10
M10
Ø25 d8

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