

6247

BOARD DIPLOMA EXAMINATION, (C-16)

MAY/JUNE—2023

DME - THIRD SEMESTER EXAMINATION

MACHINE DRAWING

Time : 3 Hours]

[Total Marks : 60

PART—A

5×4=20

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **five** marks.

1. Draw two views of a wing nut with proportions.
2. Draw the following Rivet heads with proportions :
 - (a) Pan head
 - (b) Flush counter sunk head
3. Draw the symbols for the following CI pipe fittings in single line :
 - (a) 90° elbow
 - (b) Union
 - (c) Gate valve
 - (f) Plug
 - (e) Coupling
4. Draw the following welding symbols :
 - (a) Concave fillet weld
 - (b) Spot weld
 - (c) Butt weld between plates with raised edges
 - (d) Single V-butt weld with broad root face
 - (e) Plug weld

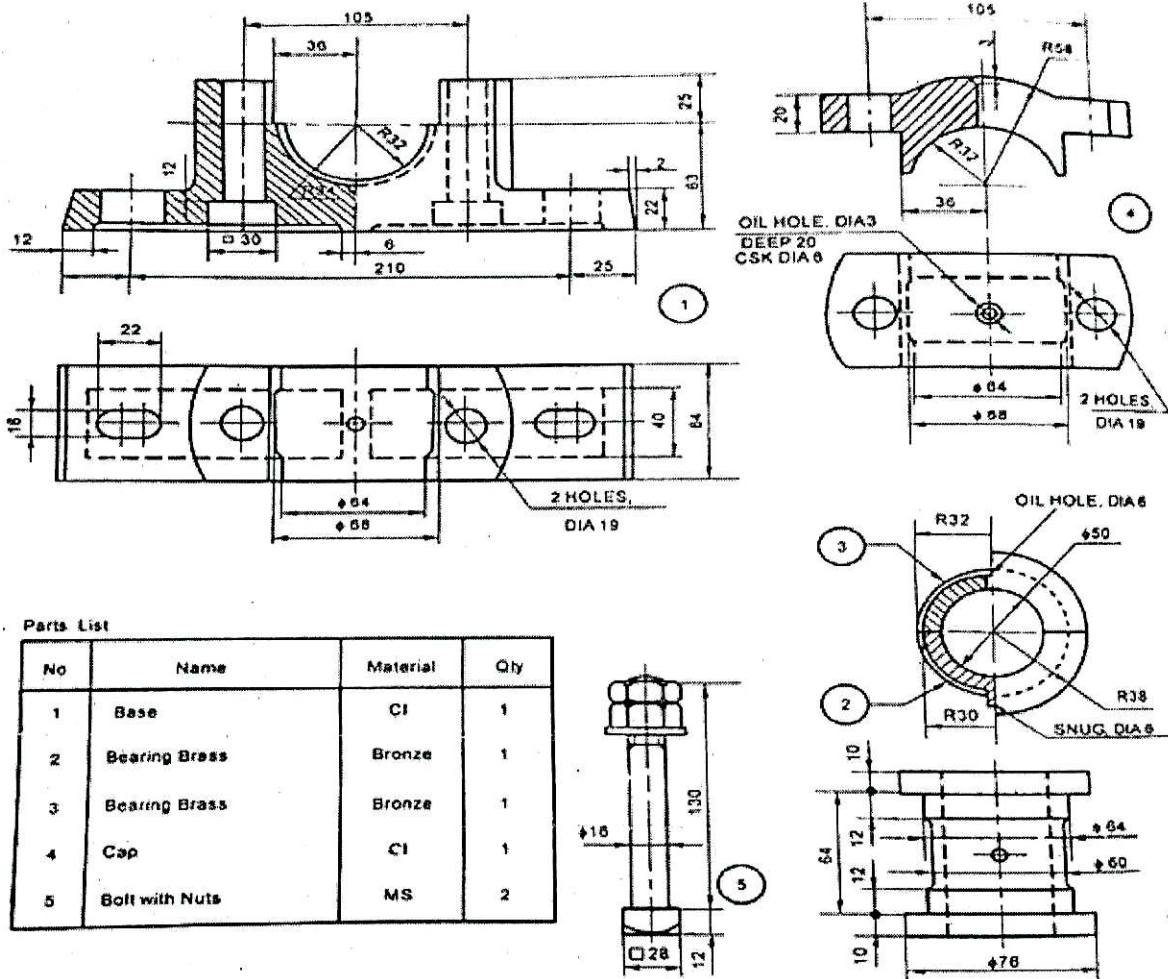
PART—B

40×1=40

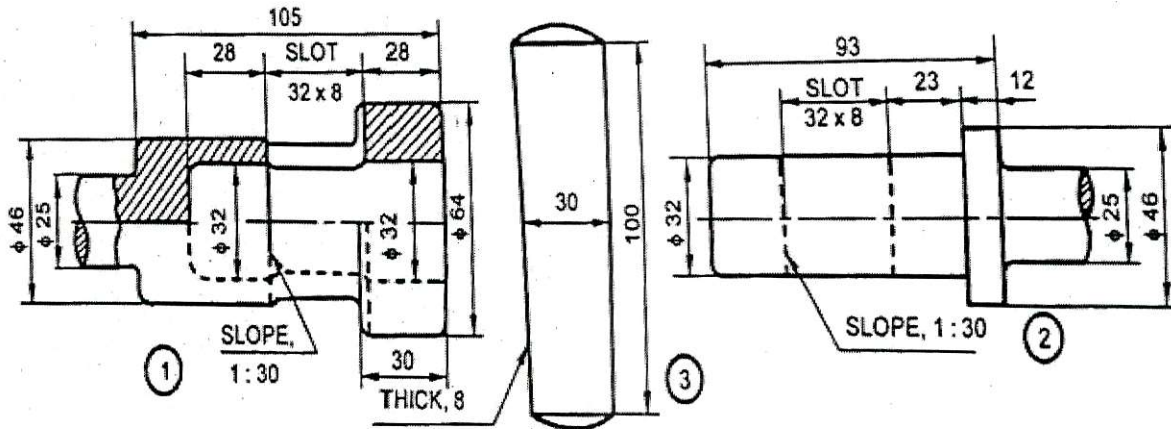
- Instructions :**
- (1) Answer *any one* questions.
 - (2) Each question carries **forty** marks.
 - (3) All dimensions are in mm.
 - (4) choose suitable scale.

5. Assemble the parts of the Plummer block, shown in fig and draw the following views : 20+15+5(dimensioning)

- (a) Half section view, with left half in section, and
- (b) Top view.



6. Assemble the parts of a Socket and Spigot joint and draw the sectional front view and right side view
20+15+5 (dimensioning)



Parts list

No.	Name	Matl	Qty
1	Socket end	MS	1
2	Spigot end	MS	1
3	Cotter	HCS	1

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