

C09-M-307/C09-MET-307

3251

BOARD DIPLOMA EXAMINATION, (C-09) MARCH/APRIL—2018 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.
- (3) Take suitable scale whenever required.
- (4) All dimensions are in mm.
- 1. Draw the following thread profiles with standard proportions :
 - (a) Knuckle thread
 - (b) Worm thread
- **2.** Draw the double-riveted chain lap joint top view.
- **3.** Draw the single-line symbols for the following pipe fittings:
 - (a) Coupling
 - (b) Cap
 - (c) Plug
 - (d) 90° elbow
 - (e) Reducer
- **4.** Draw the weld symbols for the following types of welds:
 - (a) Concave
 - (b) Single V-butt weld
 - (c) Convex double V-butt weld
 - (d) Plug weld
 - (e) Single bevel butt weld

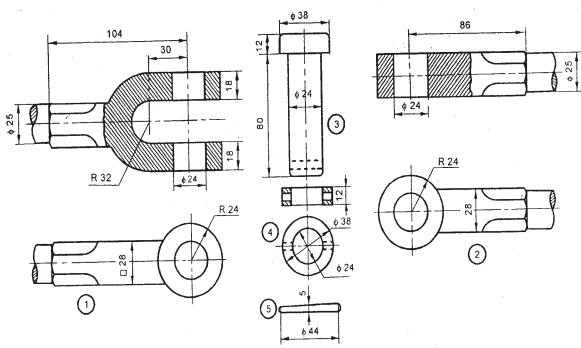
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Instructions: (1) Answer any one question.

- (2) Each question carries forty marks.
- (3) Take suitable scale whenever required.
- (4) All dimensions are in mm.
- **5.** The parts of a knuckle joint are shown in the figure. Assemble the parts and draw the following views: 25+15
 - (a) Sectional front view

(b)

Top view

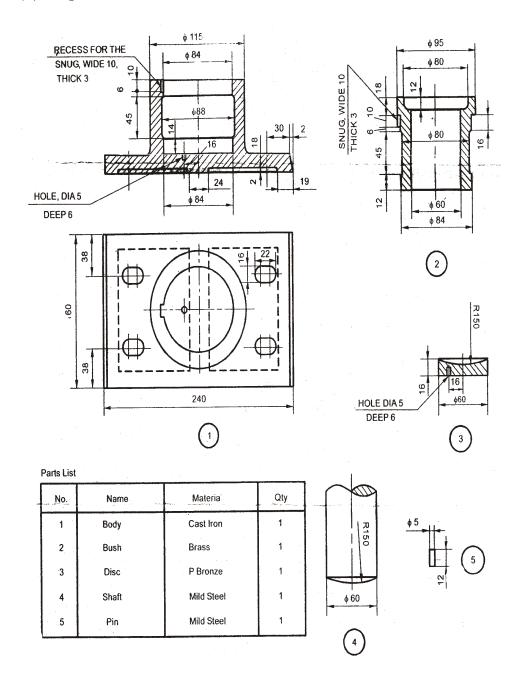


Knuckle Joint

Parts list			
No.	Name	Matl	Qty
1.	Fork end	FS	1
2.	Eye end	FS	1
3.	Pin	MS	1
4.	Collar	MS	1
5.	Taper pin	MS	1

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- **6.** Assemble the parts of a footstep bearing shown in the figure below and draw the following views: 20+20
 - (a) Sectional front view
 - (b) Top view



Footstep Bearing

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