

C09-M-307/C09-MET-307

3251

BOARD DIPLOMA EXAMINATION, (C-09) APRIL/MAY-2015

DME—THIRD SEMESTER EXAMINATION

MACHINE DRAWING

Time: 3 hours] [Total Marks: 60

PART—A

 $5 \times 4 = 20$

Instructions: (1) Answer **all** questions.

- (2) Each question carries five marks.
- (3) All dimensions are in mm. Choose suitable scale.
- **1.** Draw Hexagonal headed bolt with nut taking nominal diameter as 16 mm.
- **2.** Draw the following forms of nuts with standard proportions :

 $2\frac{1}{2}+2\frac{1}{2}=5$

- (a) Flanged nut
- (b) Wing nut
- **3.** Draw the single line symbols for the following pipe fittings:

 $1 \times 5 = 5$

- (a) 90° turned down elbow
- (b) Tee
- (c) Plug
- (d) Cross
- (e) Union

4.	Draw weld symbols for the following types of welds: $1 \times 5 = 5$
	(a) Square butt weld
	(b) Single J-Butt
	(c) Concave Fillet weld
	(d) Spot weld
	(e) Convex Double V-butt weld
	PART—B 40
Inst	ructions: (1) Answer any one question. (2) Each question carries forty marks. (3) All dimensions are in mm and choose suitable scale.
5.	Assemble the parts of footstep bearing shown in Fig. 1 (Page 3) and draw the following views: 25+15=40
	(a) Sectional front view
	(b) Top view
6.	Assemble the parts of eccentric shown in Fig. 2 (Page 4) and draw the following views : 25+15=40
	(a) Half-sectional front view with top half in section
	(b) Right side view

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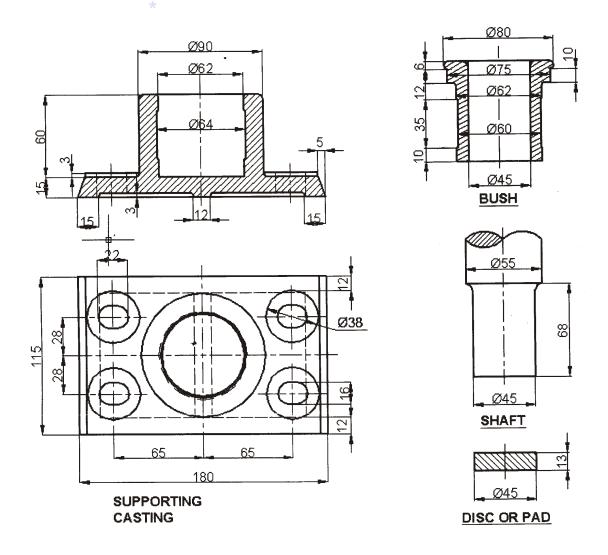


Fig. 1: Footstep Bearing Parts

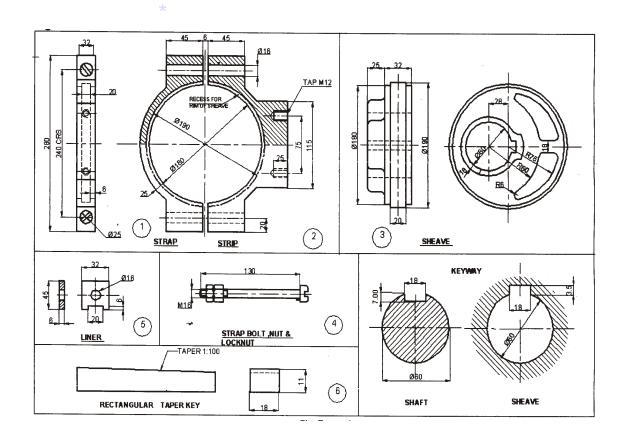


Fig. 2: Eccentric Parts

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