C09-M-307/C09-MET-307

## 3251

## BOARD DIPLOMA EXAMINATION, (C-09) <br> APRIL/MAY-2015 <br> DME—THIRD SEMESTER EXAMINATION

MACHINE DRAWING
Time : 3 hours ]

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:

$$
2^{1 / 2}+2^{1 / 2}=5
$$

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

$$
1 \times 5=5
$$

(a) $90^{\circ}$ turned down elbow
(b) Tee
(c) Plug
(d) Cross
(e) Union
[ Contd...
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

Instructions : (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 :
(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


Fig. 1 : Footstep Bearing Parts
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Fig. 2 : Eccentric Parts

