C16–M–**306**

6247

BOARD DIPLOMA EXAMINATION, (C–16)
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) All dimensions are in mm.

(4) Choose suitable scale

1. Sketch the following thread profiles and label in terms of pitch :

2½+2½=5

   (a) Acme thread

   (b) Knuckle thread

2. Draw the front and top view of a double-riveted chain lap joint and the thickness of each plate to be joined is 9 mm.

2½+2½=5

3. Draw the following weld symbols : 1×5=5

   (a) Square butt weld

   (b) Concave fillet weld

   (c) Spot weld

   (d) Plug weld

   (e) Single-bevel butt weld

4. Draw the symbols for the following pipe fittings (single line) : 1×5=5

   (a) Coupling

   (b) Plug

   (c) Tee

   (d) Union
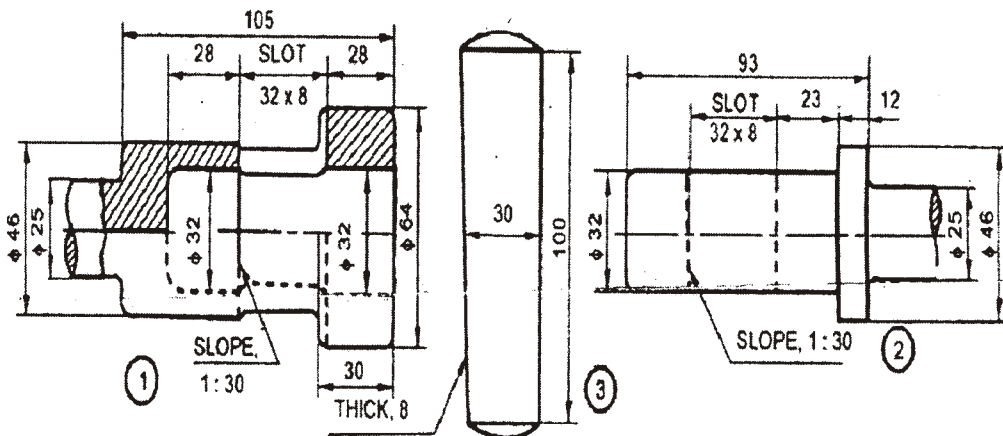
   (e) Cross

Instructions : (1) Answer *any* **one** questions.
(2) Each question carries **forty** marks.
(3) All dimensions are in mm.
(4) Choose suitable scale.
(5) Assume missing dimensions suitably.

5. Draw the front and side view of the socket and Spigot joint in assembly, the details of which are given below :

(a) Front view 20

(b) Side view 15

(c) Dimension 5

Parts list

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

6. Assemble the parts of foot step bearing, shown below and draw the following views :

(a) Sectional front   20

(b) Top view   15

(c) Dimension   5

| Parts List | | | |
No.	Name	Material	Qty
1	Body	Cast Iron	1
2	Bush	Brass	1
3	Disc	P Bronze	1
4	Shaft	Mild Steel	1
5	Pin	Mild Steel	1

★ ★ ★