

4255

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL-2017

DME—THIRD SEMESTER EXAMINATION

MACHINE DRAWING PRACTICE

Time : 3 hours]

[Total Marks : 60

5×4=20

с14-м-307

PART—A

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

- (2) Each question carries five marks
- (3) All dimensions are to be in mm.

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

21/2+21/2=5

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

1×5=5

(a) Acme thread

(b) Square 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.
- **3.** Draw the following weld symbols :
 - (a) Convex weld
 - (b) Concave fillet weld
 - (c) Spot weld
 - (d) Seam weld
 - (e) Single-bevel butt weld

Draw the symbols for the following pipe fittings (single line) :

1×5=5

- (a) Coupling
- (b) Plug
- (c) 90° elbow
- (d) Reducer
- (e) Cross

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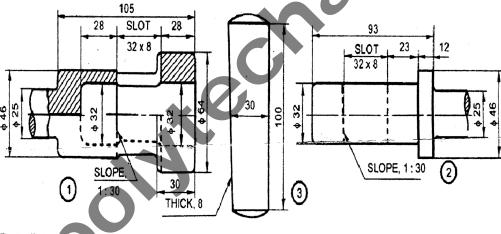
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PART—B

Instructions : (1) Answer any one question.

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- (2) Each question carries forty marks.
- (3) All dimensions are given 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
 - (b) Side view
 - (c) Dimension



Parts list

	No.	Name	Mati	Qty
	1	Socket end	MS	1
	2	Spigot end	MS	1
	3	Cotter	HCS	1
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20

15 5

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- or 105 105 36 m R58 25 2 4) OIL HOLE, DIAS 0.30 12 DEEP 20 CSK DIA 6 210 25 \odot 22 \$64 2 HOLES <u>o 68</u> DIA 19 2 HOLE 664 OIL HOLE DIA 5 ¢ 68 R32 450 (3) Parts Lis! No. Name Material Qty 2 R38 1 Base CI 1 R30 SNUG DAS Bearing Brass 2 2 Bronze 1 Bearing Brass 30 3 Bronze 1 ę 54 ¢16 nni 12 СI 1 46 ф 6Ö 12 ,5 Bolt with Nuts MS 2 0 28 ¢76
- 6. Draw the front and top view of the plummer block in assembly, the details of which are given below : 25+10+5=40

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