

7262

BOARD DIPLOMA EXAMINATION, (C-20)

JUNE/JULY—2022

DME - THIRD SEMESTER EXAMINATION

MACHINE DRAWING

[Total Marks: 60 Time: 3 hours PART—A $5 \times 4 = 20$ **Instructions:** (1) Answer **all** questions. (2) Each question carries five marks. (3) All dimensions are given in mm. 1. Draw a M20 hexagonal headed bolt with standard proportions. 5 Draw locking arrangement by using lock nut with standard 2. proportions. 5 3. Draw the following weld symbols: $1 \times 5 = 5$ (a) Single J-butt weld (b) Butt weld between plates with raised edges (c) Seam weld (d) Fillet weld

4. Draw the following pipe fitting symbols :

(e) Flat single V-butt weld with flat backing run

 $1 \times 5 = 5$

- (a) Plug
- (b) 40° Elbow
- (c) Gate valve
- (d) Union
- (e) Coupling

Instructions: (1) Answer any one question.

- (2) All dimensions are given in mm and choose suitable scale.
- (3) Assume missing dimensions suitably.
- **5.** Assemble the parts of Socket and Spigot joint by using the part drawing given in the figure below (page 2) and draw the following:
 - (a) Half sectional front view with top half in section

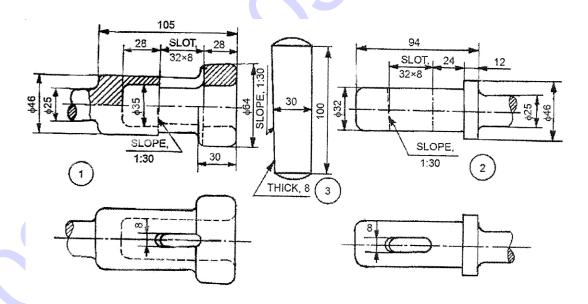
15

(b) Top view

(c) Dimensioning

5

20



Parts list

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

Socket and spigot joint

6. Assemble the parts of Foot step Bearing by using the part drawing given in the figure below (page 3) and draw the following:

(a) Full sectional front view

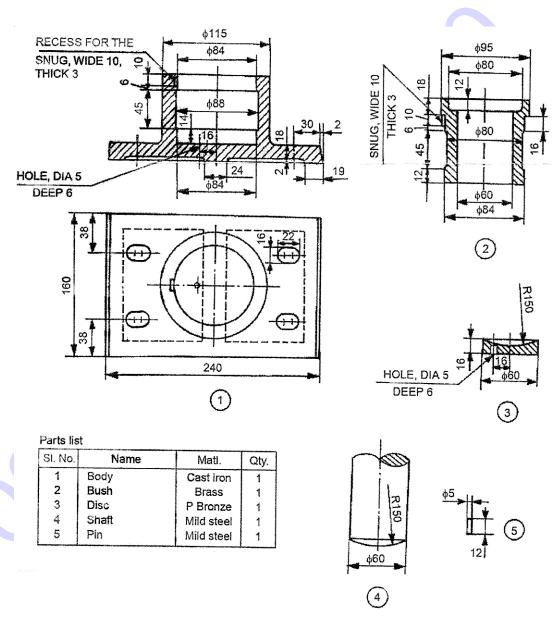
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(b) Top view

15p

(c) Dimensioning

5



Foot-step bearing