

7262

BOARD DIPLOMA EXAMINATION, (C-20)

JUNE/JULY—2022

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 given in mm.
- 1. Draw a M20 hexagonal headed bolt with standard proportions. 5
- 2. Draw locking arrangement by using lock nut with standard proportions.
- 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
 - (e) Flat single V-butt weld with flat backing run
- 4. Draw the following pipe fitting symbols:

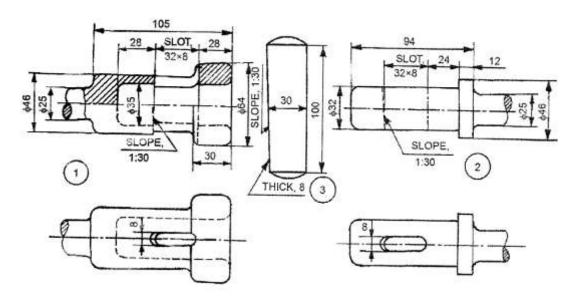
 $1 \times 5 = 5$

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

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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 20
 - (b) Top view 15
 - (c) Dimensioning 5



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

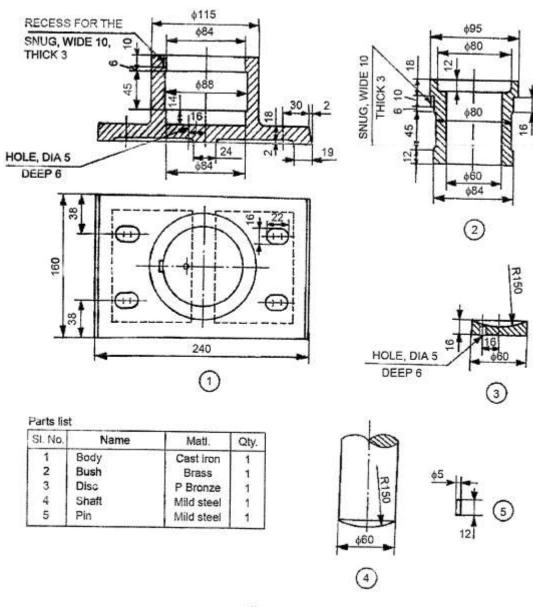
Socket and spigot joint

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

(b) Top view 15p

(c) Dimensioning 5



Foot-step bearing

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