C-16-M-306

6247

BOARD DIPLOMA EXAMINATIONS

DME-THIRD SEMESTER

SEPTEMBER/OCTOBER - 2020

MACHINE DRAWING

Time: 3 hours

Max. Marks: 60

PART – A

 $4 \ge 5 = 20$

- Instructions: 1. Answer all questions.
 - 2. Each question carries Five Marks.
 - *3. All dimensions are to be in mm.*
- **1.** Draw a Hexagonal headed bolt with a nut and washer in a position taking Nominal diameter is 20 mm and length 80 mm
- 2. Draw the following rivet heads with a suitable proportions:
 - a) Snap head
 - b) Pan head

3. Draw the following weld symbols:

- a) Back or backing weld
- b) Convex double V butt weld
- c) Seam weld
- d) Fillet weld
- e) Single J butt weld.

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

- a) Globe Valve
- b) Gate Valve
- c) Check Valve
- d) Reducer
- e) Union
- *

[Cont..,

www.manaresults.co.in

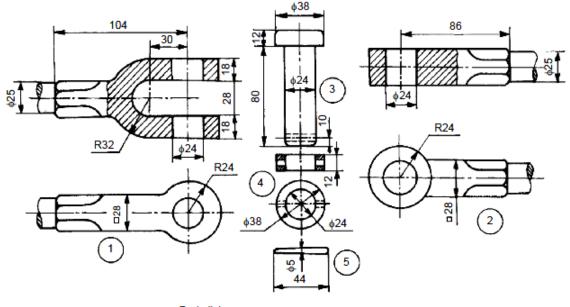
PART - B

Instructions: 1. Answer any Five questions

- 2. Each question carries FORTY Marks.
- 3. All dimensions are given in mm.
- 4. Choose suitable Scale.
- 5. Assume missing dimensions suitably.
- **5.** Fig. shows details of Knuckle Joint .Assemble all the parts and draw the following views of the assembly to full scale.
 - a) Sectional Front View (20 M)
 b) Top View (15 M)
 - c) Dimension

(15 M)

(**5M**)

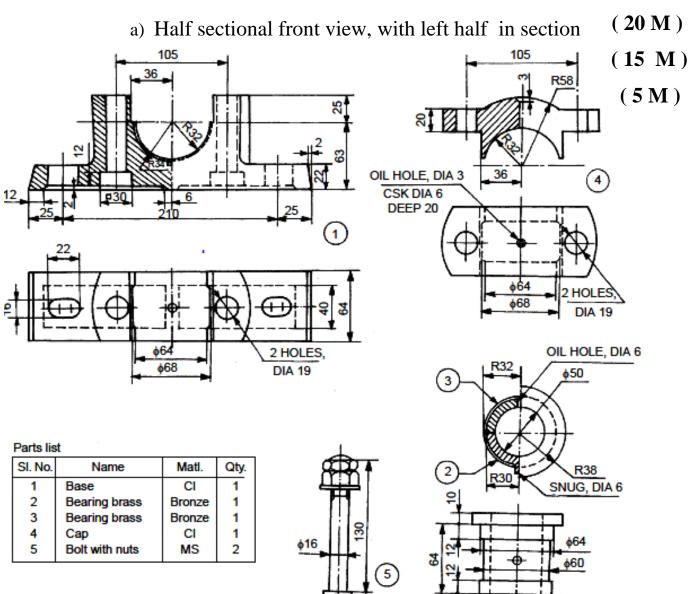


Parts list				
	SI. No.	Name	Matl.	Qty.
	1	Fork end	Forged steel	1
	2	Eye end	Forged steel	1
	3	Pin	Mild steel	1
	4	Collar	Mild steel	1
	5	Taper pin	Mild steel	1

Fig. Knuckle joint

www.manareŝults.co.in

[Cont..,



6. Fig. shows details of Plummer Block. Assemble all the parts and draw the following views.

Fig. Plummer Block

₫76

*