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C16-M/RAC-306

6247

BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—2021

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.

1. Draw two views of flanged nut with proportions.
2. Draw the views of single riveted Double strap butt joint.
3. Draw the symbols for the following C.I pipe fittings in single line :
 - (a) 40° elbow
 - (b) Lateral
 - (c) Cross
 - (d) Tee
 - (e) Cap
4. Draw the following welding symbols :
 - (a) Convex double V-butt weld
 - (b) Single bevel butt weld
 - (c) Single J butt weld
 - (d) Seam weld
 - (e) Backing weld

PART—B

Instructions : (1) Answer *any one* question.

(2) Each question carries **forty** marks.

(3) All dimensions are in mm.

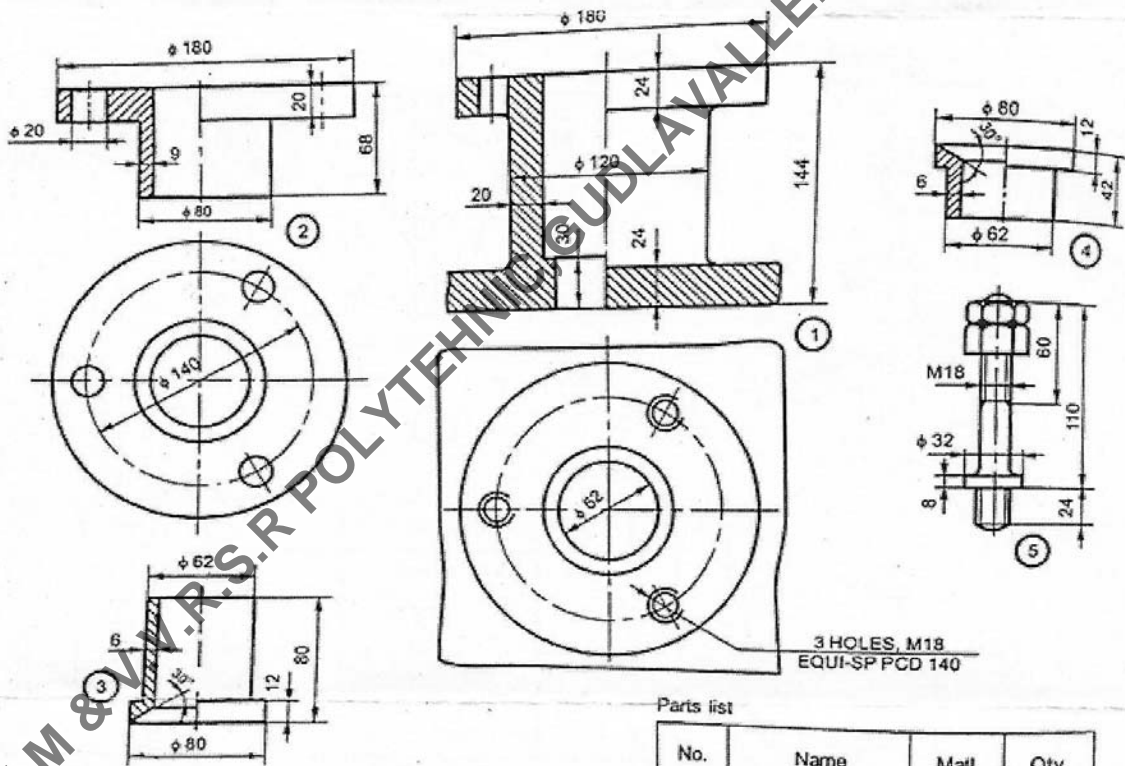
(4) Choose suitable scale.

5. Assemble the parts of a stuffing box shown in given figure and draw

(a) half-sectional front view, with left half in section;

(b) top view

20+15+5



Parts list

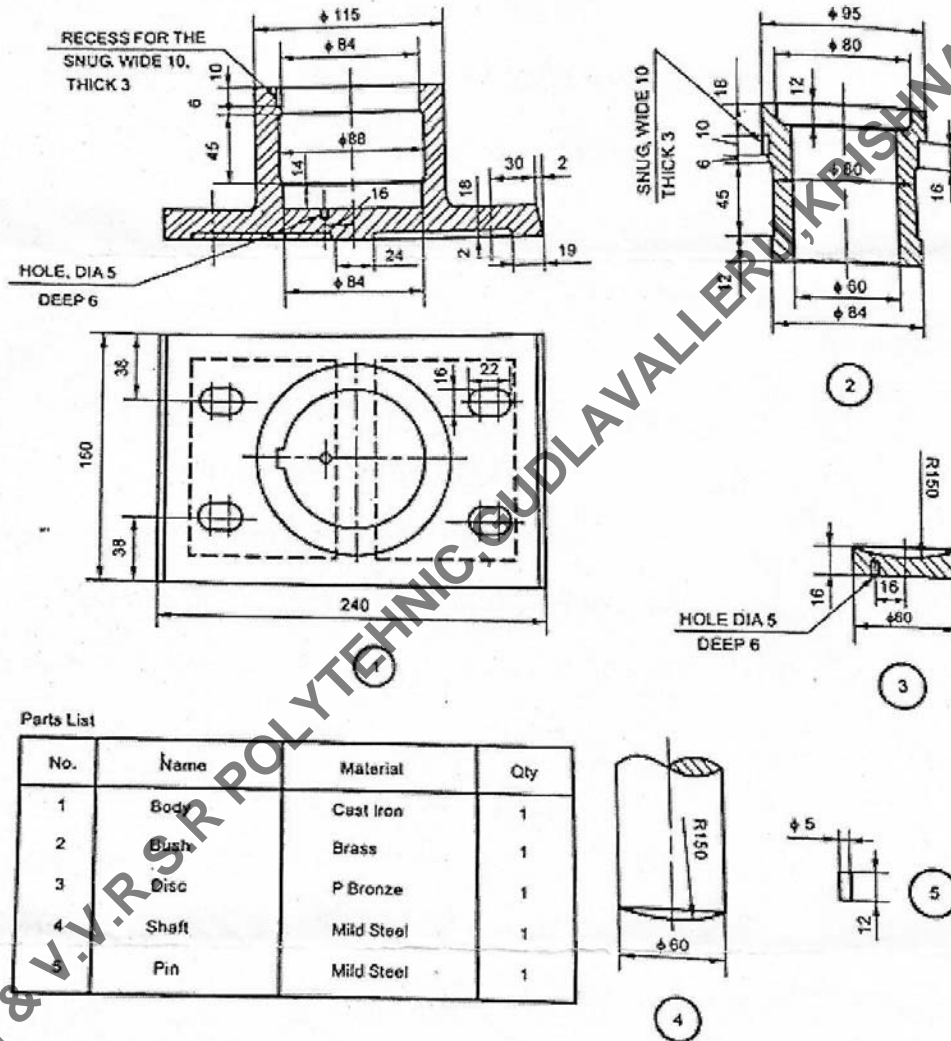
No.	Name	Matl	Qty
1	Stuffing box	CI	1
2	Gland	CI	1
3	Gland bush	BRASS	1
4	Neck bush	BRASS	1
5	Stud with nuts	MS	3

6. Assemble the parts of a foot-step bearing and draw the following views :

(a) sectional front view

(b) top view

20+15+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

★ ★ ★