



C20-M-307

7262

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2023

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.

(3) All dimensions are given in mm.

1. Draw front view of following nuts with standard proportions :

(a) Dome nut 2½

(b) Wing nut 2½

2. Draw front view and top view of single riveted lap joint for joining plates of thickness 9 mm. Take standard proportions. 2+3=5

3. Draw the following weld symbols : 1×5=5

(a) Single V-butt weld

(b) Plug weld

(c) Concave fillet weld

(d) Backing weld

(e) Single bevel butt weld

4. Draw the following pipe fitting symbols : 1×5=5

(a) Globe valve

(b) 90° Elbow

(c) Check valve

(d) Lateral

(e) Cross

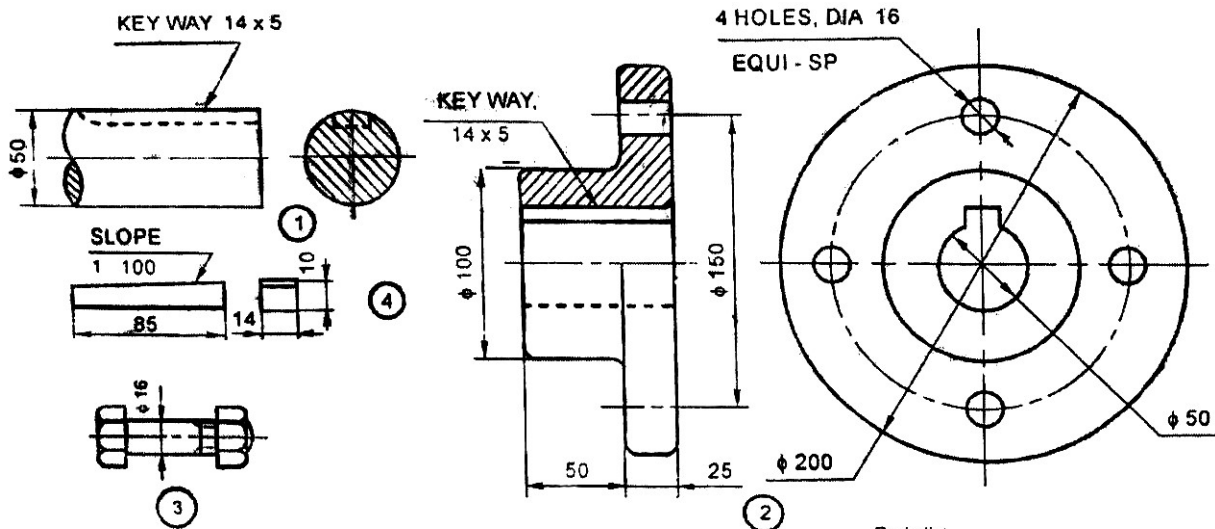
PART—B

40×1=40

- Instructions :** (1) Answer *any one* questions.
 (2) Each question carries **forty** marks.
 (3) All dimensions are given in mm and choose suitable scale.
 (4) Assume missing dimensions suitably.

5. Assemble the parts of Flanged coupling by using the part drawing given in the figure below (page-2) and Draw the following :

- (a) Half sectional front view 20
 (b) Side view 15
 (c) Dimensioning 5



FLANGED COUPLING

Parts list

No.	Name	Matl	Qty
1	Shaft	MS	2
2	Flange	CI	2
3	Bolt with nut	MS	4
4	Key	MS	2

②

6. Assemble the parts of Stuffing box by using the part drawing given in the figure below (page-3) and draw the following :

(a) Full sectional front view

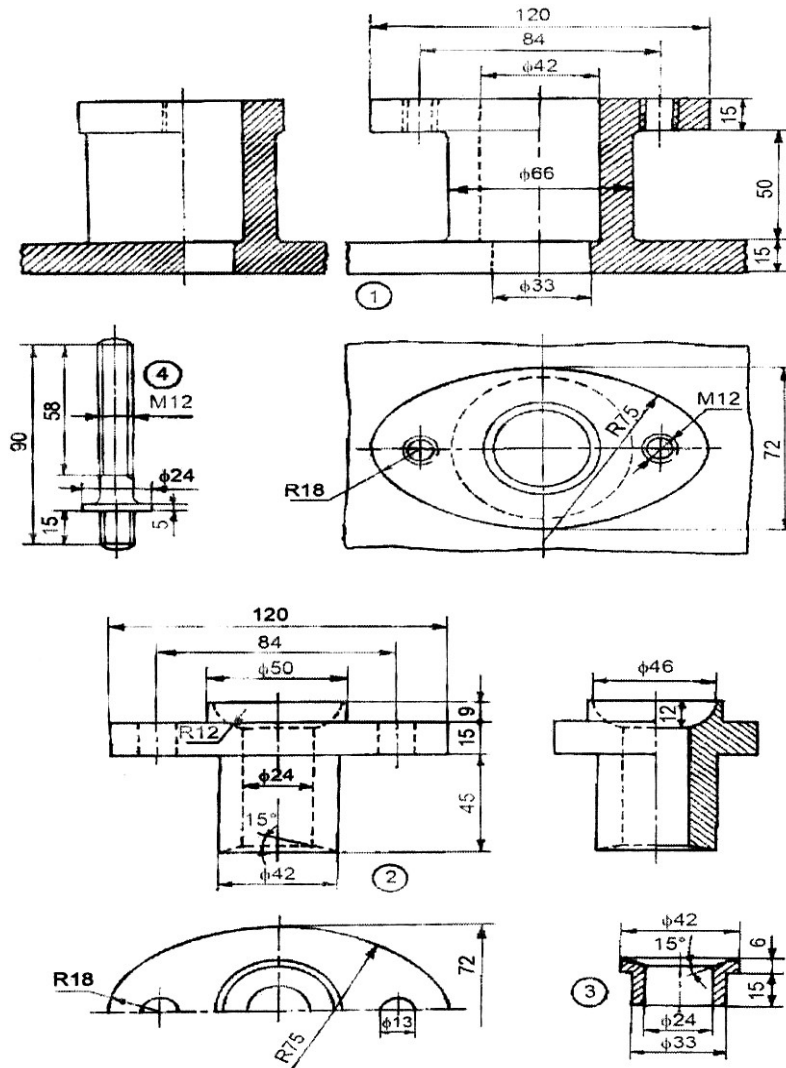
20

(b) Top view

15

(c) Dimensioning

5



Parts list

Part No.	Name	Matl	Qty
1	Body	CI	1
2	Gland	Brass	1
3	Bush	Brass	1
4	Stud	MS	2
5	Nut, M12	MS	2

Stuffing box

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