

C16-RAC-306

6247

BOARD DIPLOMA EXAMINATION, (C-16)

AUGUST/SEPTEMBER—2021

DME - THIRD SEMESTER EXAMINATION

MACHINE DRAWING

Time: 3 hours]

PART—A

[Total Marks : 60

5×4=20

- **Instructions :** (1) Answer **all** questions.
 - (2) Each question carries **five** marks.
 - (3) Answers should be neat and clear with **all** the necessary dimensions.
 - (4) **All** dimensions are in mm.
 - **1.** Sketch the following thread profiles with proportions :
 - (a) ACME thread
 - (b) Knuckle thread
 - **2.** Draw the Gib head key with proportions. Assume diameter of shaft as 40 mm.
 - **3.** Draw the following pipe fitting symbols(single line) :
 - (a) Plug (b) Coupling
 - (c) Union (d) Cap
 - (e) Check valve
 - **4.** Draw the weld symbols for the following type of welds:
 - (a) Single V-butt weld
 - (b) Backing weld
 - (c) Single bevel butt weld
 - (d) Single J-butt weld
 - (e) Square butt weld

/6247

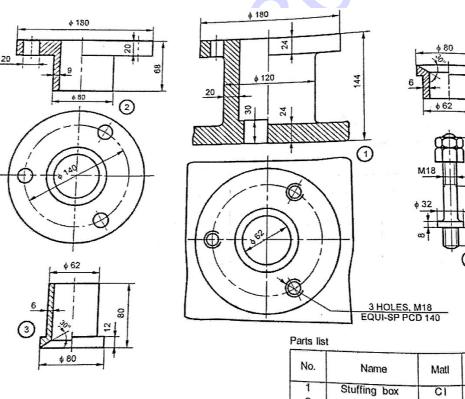
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PART—B

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

- (2) Each question carries **forty** marks.
- (3) All dimensions are in mm. Choose suitable scale.
- (4) Assume missing dimensions suitably.
- **5.** Assemble the parts of stuffing box as shown in the figure and draw the following views :
 - (a) Half-sectional front view, with left half in section
 - (b) Top view

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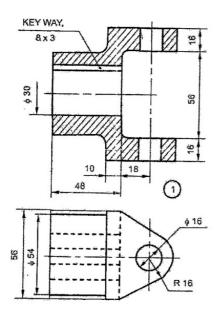
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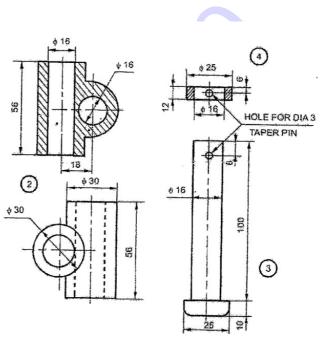
No.	Name	Matl	Qty
1	Stuffing box	CI	1
.2	Gland	CI	1
3	Gland bush	BRASS	1
4	Neck bush	BRASS	1
5	Stud with nuts	MS	3

/6247

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- **6.** Assemble the parts of universal coupling as shown in the figure and draw the following views :
 - (a) Sectional front view
 - (b) Left side view
 - (c) Top view





Parts	List
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No.	Name	Matl	Qty
1	Fork .	MS	z
2	Centre Block	MS	1
3	Pin	MS	2
4	Collar	MS	2

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