

TED (10)-3040

Reg. No.

(REVISION-2010)

Signature

THIRD SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/
TECHNOLOGY—OCTOBER, 2011

MACHINE DRAWING
(Common to AU and ME)

[Time : 3 hours

(Maximum marks : 100)

- [Note : 1. All dimensions are in mm.
2. First angle projection is to be followed.
3. Missing data if any may be suitably assumed.
4. Both sides of the drawing sheet may be used.
5. Sketch to be accompanied.]

Marks

UNIT—I

- I Draw Eye end type foundation bolt having diameter 12 mm. 15

OR

- II Draw Sectional Elevation and Top view of a double riveted zig-zag type lap joint for joining plates of thickness 16 mm. Insert all dimensions in terms of the diameter. 15

UNIT—II

- III Isometric view of Gib and cotter joint is shown in figure 1. Draw the following views :
(a) Full sectional Elevation 20
(b) Left hand side view. 10
(20+10=30)

OR

- IV An isometric view of a protected type flanged coupling is shown in figure 2. Draw the following views :
(a) Top half sectional Elevation 20
(b) End view looking from L.H.S. 10
(20+10=30)

UNIT—III

- V An isometric of a foot step bearing is shown in figure 3. Draw the following views :
(a) Full sectional Elevation 25
(b) Top view. 15
(25+15=40)

OR

- VI Disassembled isometric view of a stuffing box is shown in figure 4. Assemble the parts and draw left half sectional Elevation. 40

UNIT—IV

VII Draw the elementary welding symbols for the following welds :

- (a) Fillet weld
- (b) Single-J butt weld
- (c) Single-U butt weld
- (d) Single-bevel butt weld
- (e) Single-V butt weld.

(5×3=15)

OR

VIII Double line orthographic layout of delivery side of water pump installation system is shown in figure 5. Draw the single line orthographic layout using symbols.

15

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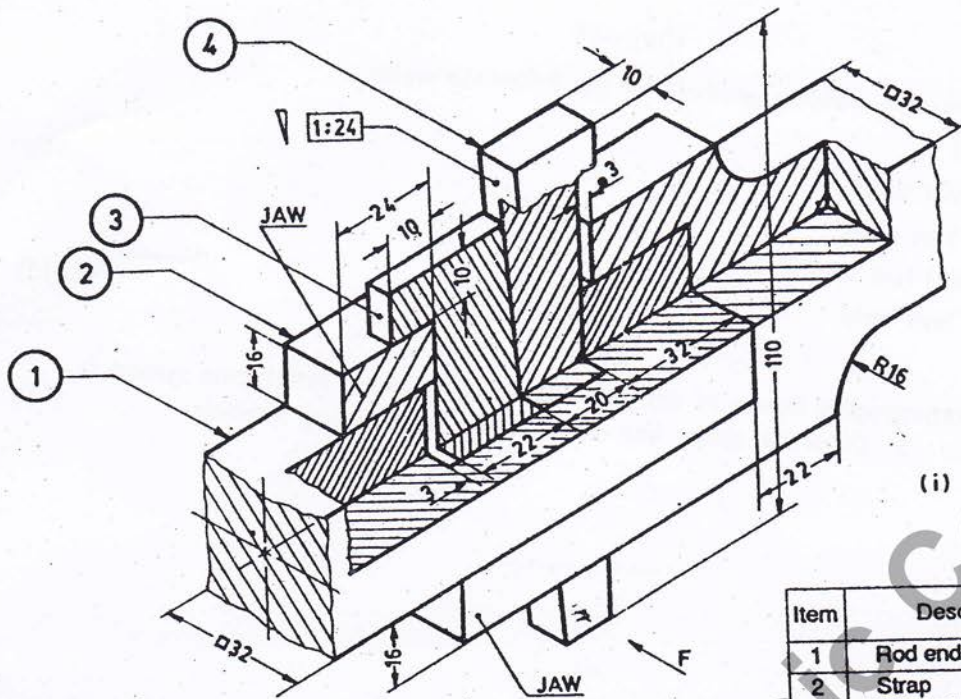


FIG. 1

ITEM LIST

Item	Description	Qty.	Material
1	Rod end (Square)	1	M. S.
2	Strap	1	M. S.
3	Gib	1	M. S.
4	Cotter	1	M. S.

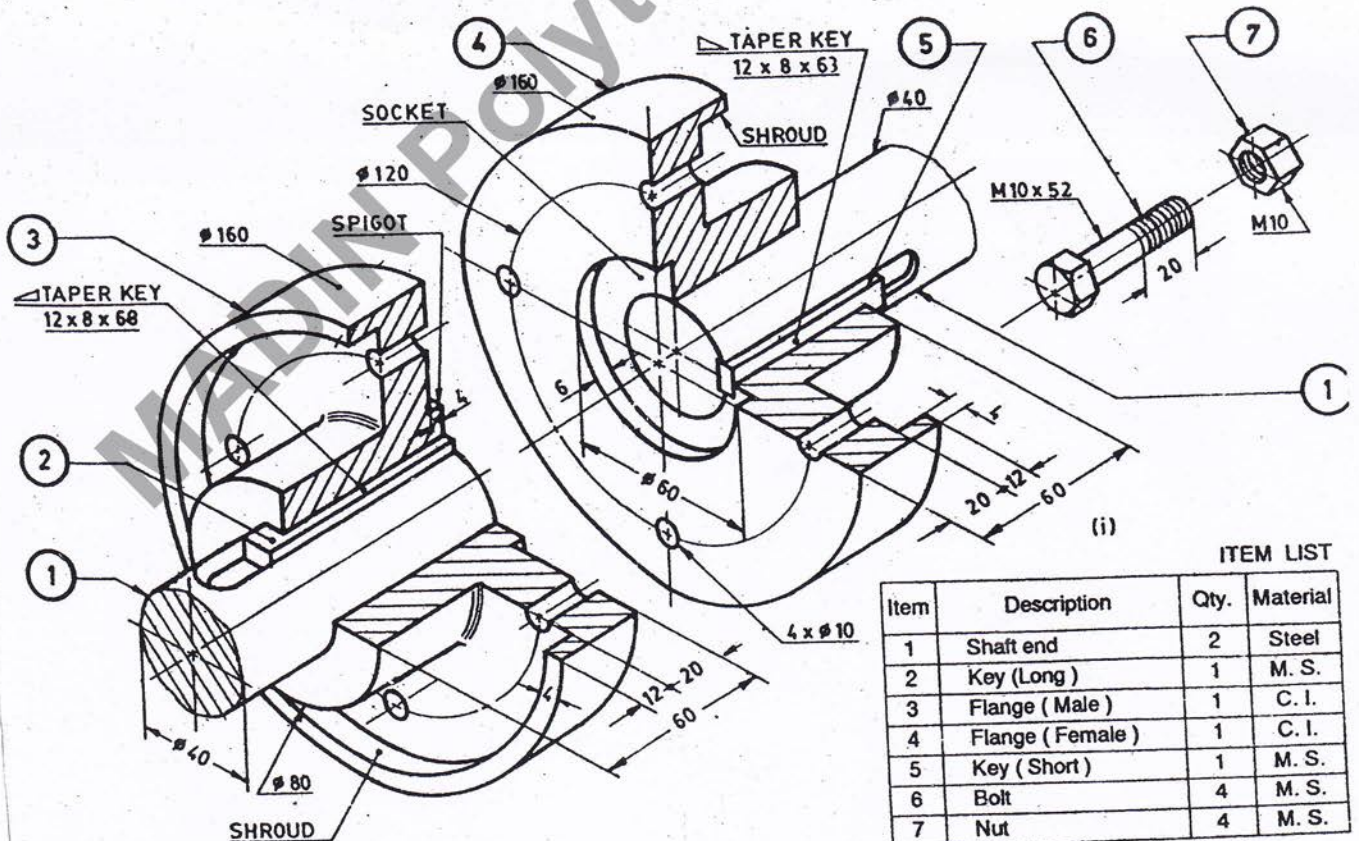
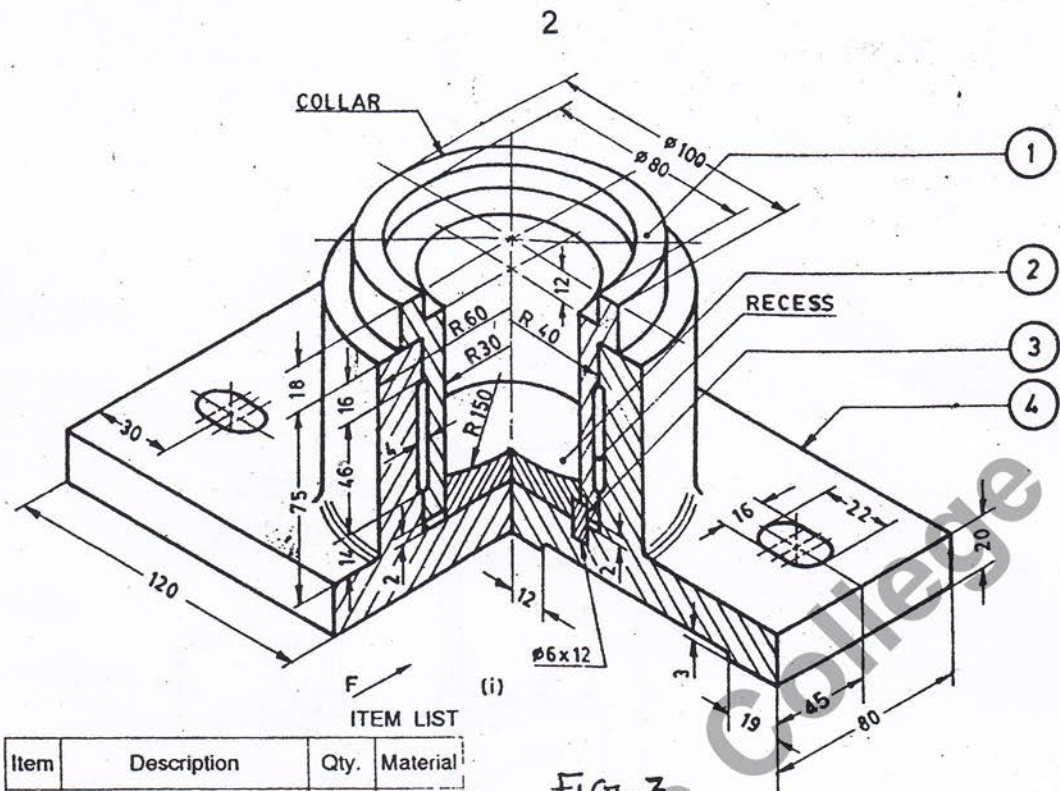


FIG. 2

ITEM LIST

Item	Description	Qty.	Material
1	Shaft end	2	Steel
2	Key (Long)	1	M. S.
3	Flange (Male)	1	C. I.
4	Flange (Female)	1	C. I.
5	Key (Short)	1	M. S.
6	Bolt	4	M. S.
7	Nut	4	M. S.



ITEM LIST

Item	Description	Qty.	Material
1	Bush	1	G. M.
2	Pad	1	G. M.
3	Snug	1	Steel
4	Block	1	C. I.

FIG. 3

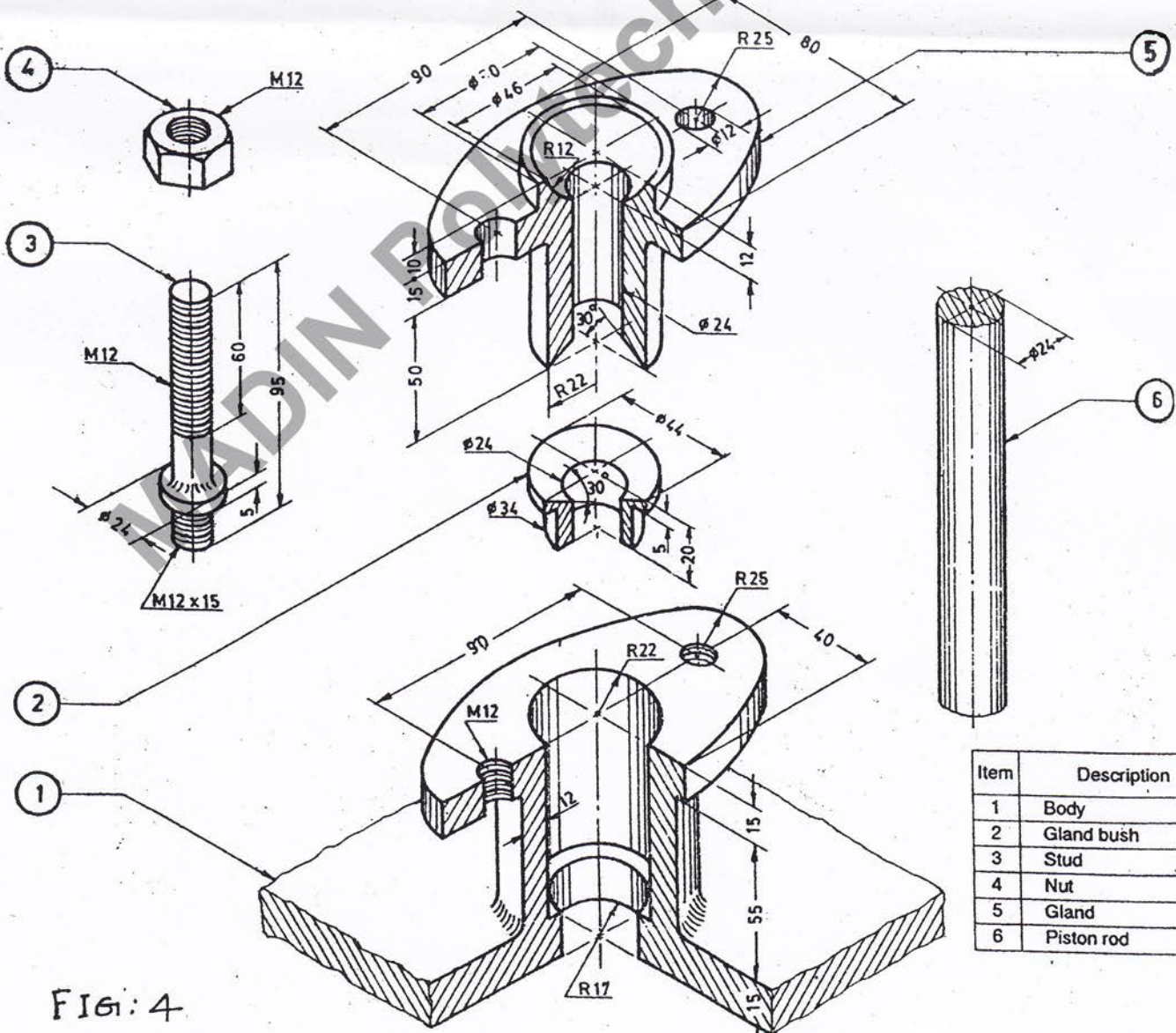
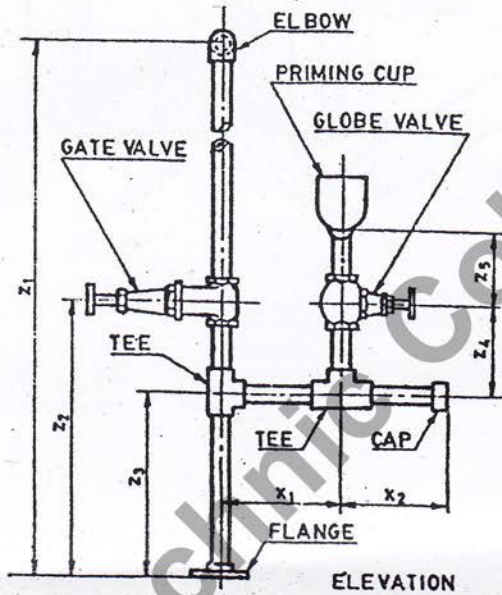


FIG: 4

Item	Description	Qty.
1	Body	1
2	Gland bush	1
3	Stud	2
4	Nut	2
5	Gland	1
6	Piston rod	1



Double line orthographic layout
(Delivery side of water pump installation)

FIG. 5

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Qty.	ITE
1	
1	
2	
2	
1	
1	