TED (10)–3040 Reg. No. .....

(REVISION—2010) Signature .....

THIRD SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/ TECHNOLOGY—OCTOBER, 2014

MACHINE DRAWING

(Common to ME and AU)

[*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. Sketches on 2nd and 3rd pages.]

Marks

UNIT—I

I Draw two views of a hexagonal bolt of size M 24. The length of bolt is 80 mm and thread length is 42 mm. 15

OR

II Draw sectional elevation and plan of a double riveted lap joint for joining plates of thickness 16 mm. 15

UNIT—II

III An Isometric view of a socket and spigot joint is shown in figure 1. Draw the Top half sectional elevation and an end view. 30

OR

IV Figure-2 shows the parts of a flexible bush type coupling. Assemble the parts and draw the top half sectional elevation and an end view. 30

UNIT—III

V Isometric view of a foot step bearing is shown in figure 3. Draw the Right half sectional elevation and a full plan. Prepare the bill of material. 40

OR

VI Detailed view of a stuffing box is given in figure 4. Assemble the parts and draw the full sectional elevation and prepare item list. 40

UNIT—IV

VII Draw double line orthographic symbols of the following pipe fittings :

(a) 90° Elbow (b) Tee (c) Reducer (5×3=15)

OR

VIII Draw the following weld symbols :

(a) Fillet weld
(b) Spot weld
(c) Single V butt weld
(d) Single U butt weld
(e) Single J butt weld

(5×3=15)

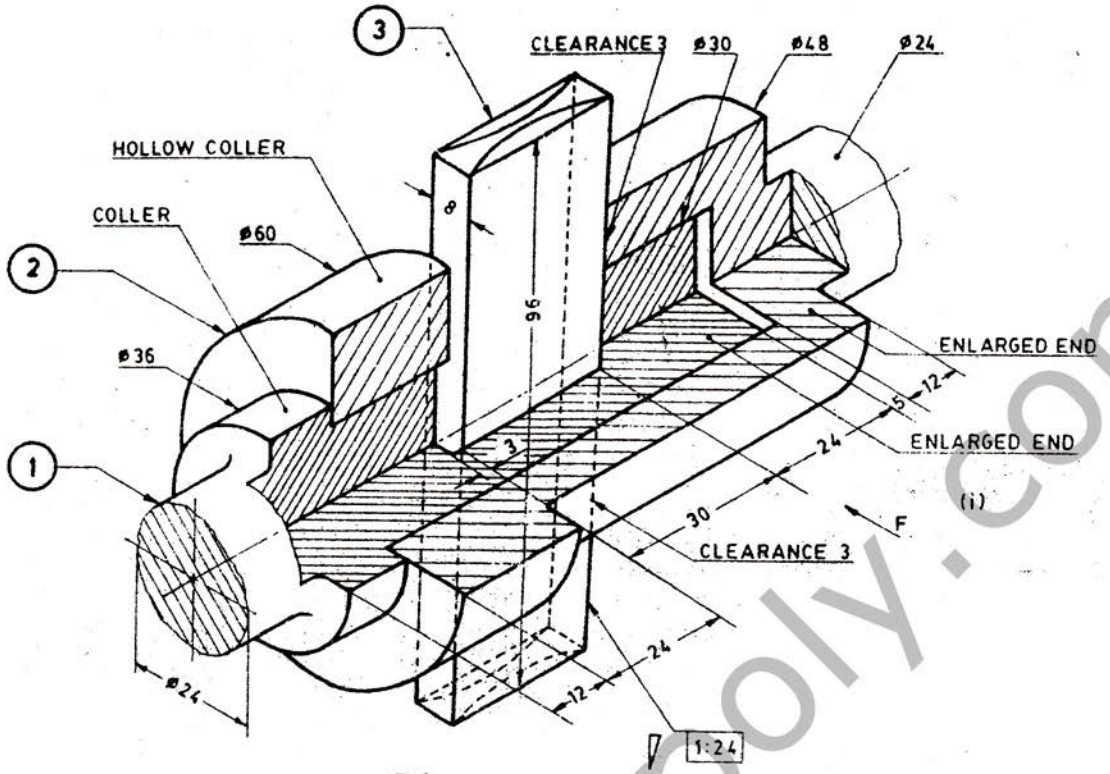

Figure-1

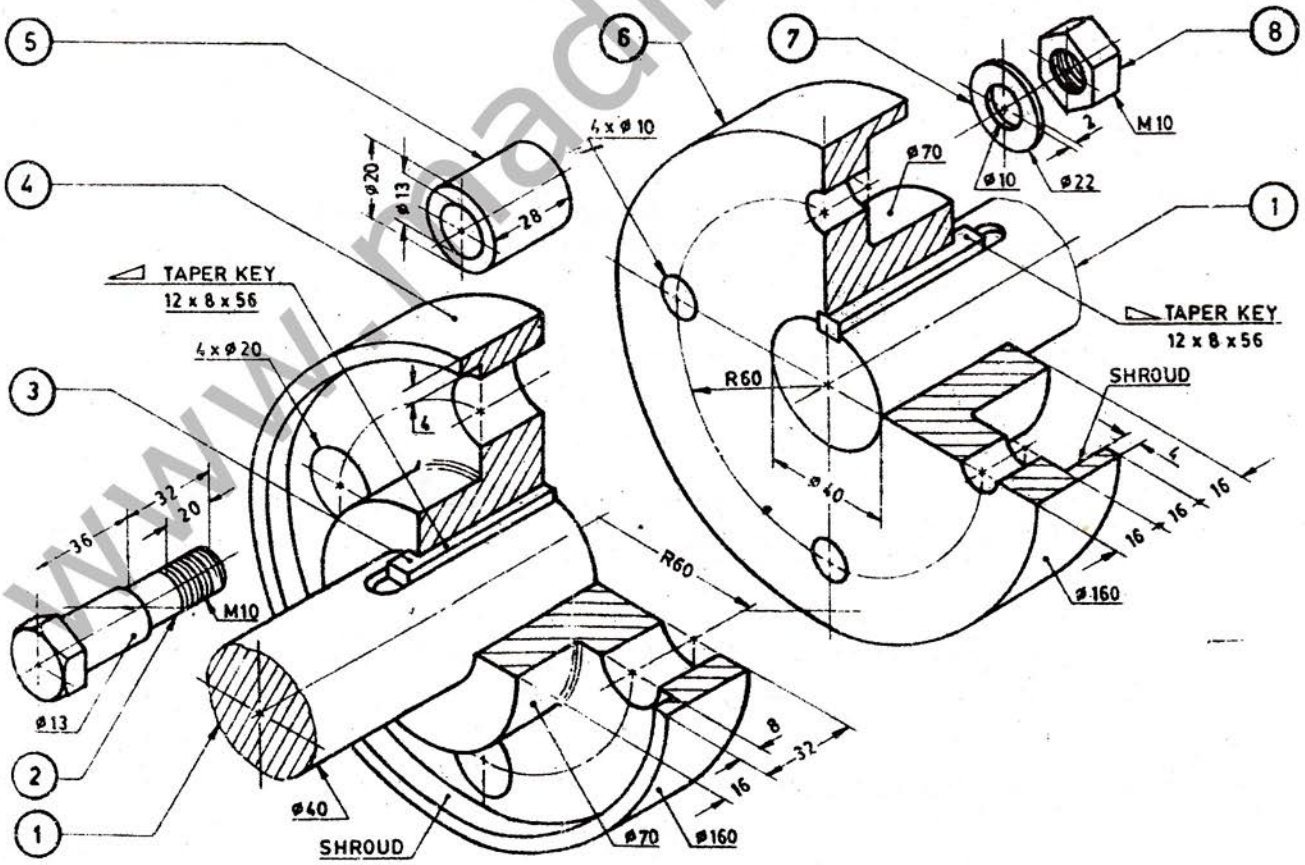

Figure-2

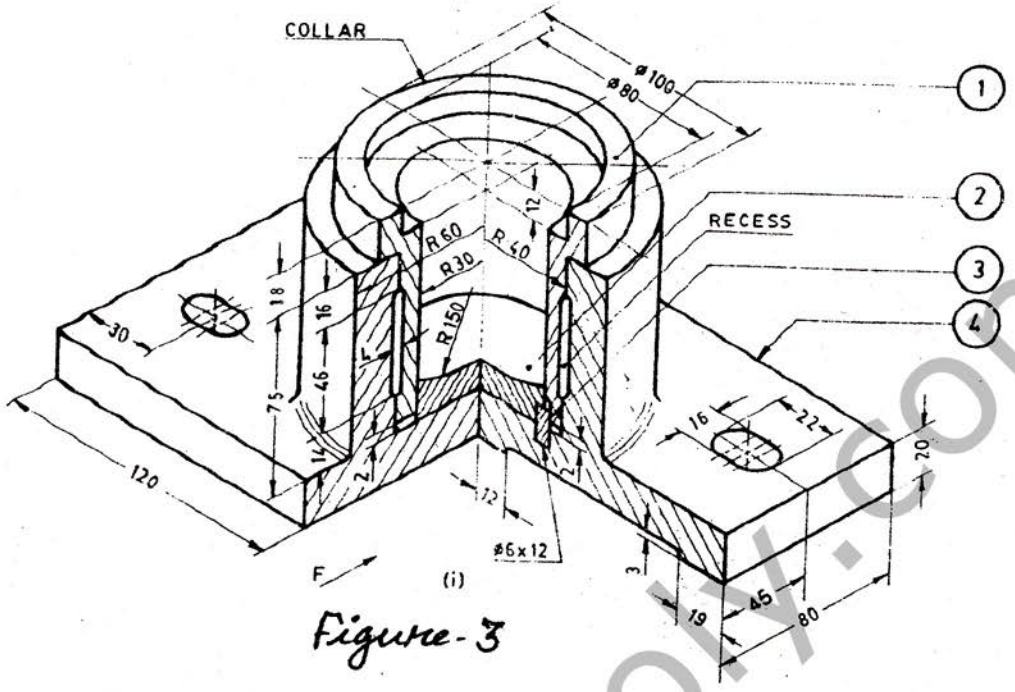

Figure-3

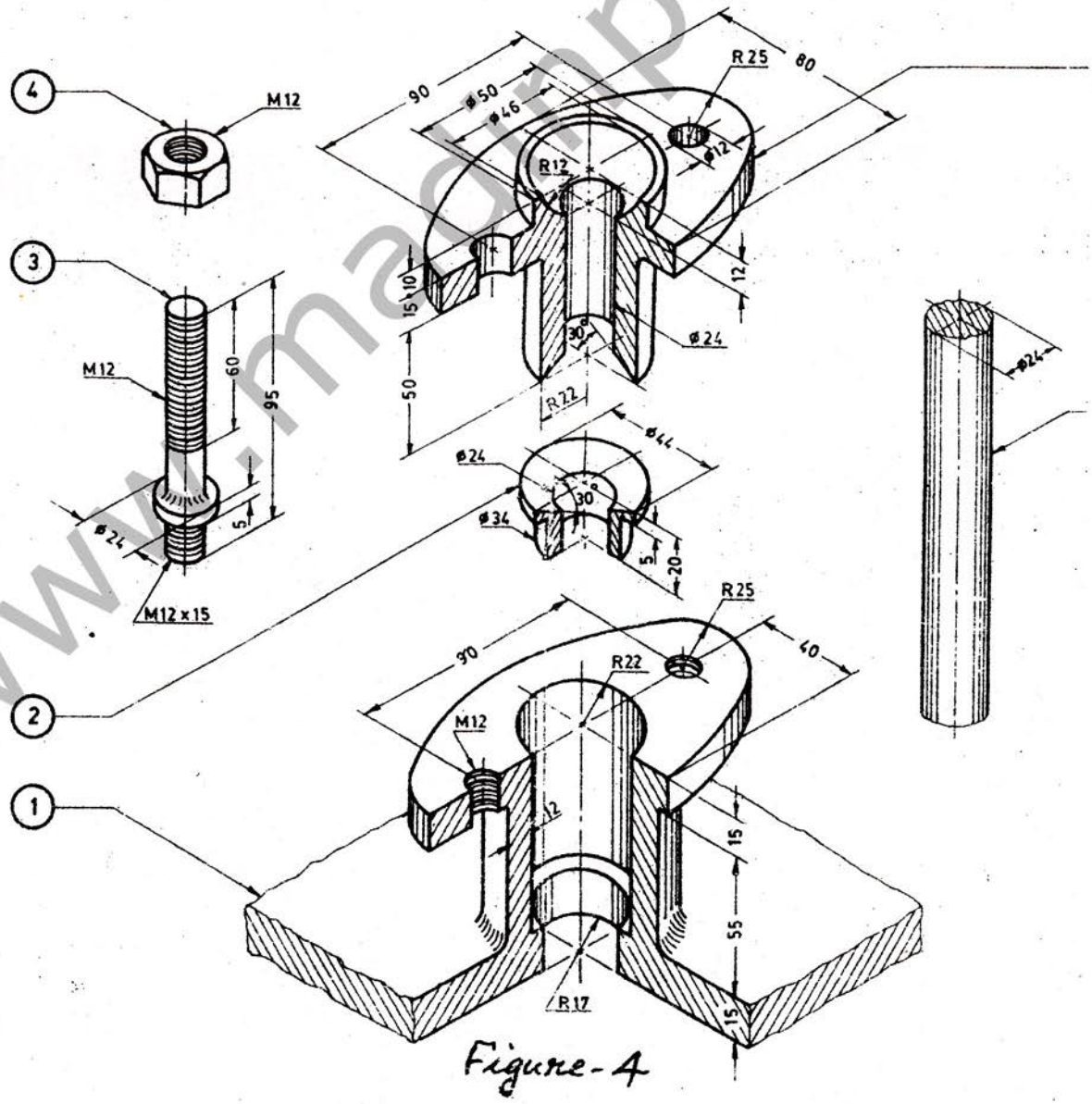

Figure-4