TED (15/1	9-) -3024
(Revision-	2015/19)

A21-07970

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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE – APRIL -2021.

MACHINE DRAWING	*
(Maximum Marks : 75) [Time :	2.15 hours]
[Note:1. All dimensions are in mm. 2. First angle projections 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 accompanied] PART-A (Answer any one out of two questions. Each question carries 20 marks)	Marks
UNIT-I I. Draw two views of a hexagonal headed bolt of size M30. The length of the	
bolt is 80mm and thread length is 54. Indicate all dimensions in terms of	
diameter of the bolt.	(20)
OR	
II. Draw two views of a single riveted single strap butt joint. Take thickness	
of the plates as 12mm. Mark the proportions in the drawing.	(20)
PART-B (Answer any one out of four questions. Each question carries 40 marks) UNIT-II	× "
III. An isometric view of a Sleeve and cotter joint is shown in figure 1. Draw top half sectional elevation and bottom half sectional plan. OR	(40)
IV. Pictorial view of a flanged coupling (unprotected type) is shown in	
Figure 2 Draw ton half sectional elevation and end view	(40)

UNIT-III

V. Detailed view of a foot step bearing is shown in figure 3. Assemble the parts and draw full sectional front view and top view.

OR

VI. Detailed views of a stuffing box is shown in figure 4. Assemble the parts and draw full sectional front and top view. (40)

PART-C

(Answer one out of two questions. Each question carries 15 marks)

UNIT-IV

- VII. Draw symbols for the following welded joints.
 - 1. Square butt weld
- 2. Fillet weld
- 3. Single V butt weld

- 4. Single bevel butt weld
- 5. Single J butt weld 6. Spot weld
- (15)

(40)

OR

- VIII. Draw single line symbols for the following pipe fittings.
 - 1. Gate valve
- 2. Globe valve
- 3. Check valve

- 4. TEE joint
- 5. 90° Elbow
- 6. 45° Elbow
- (15)

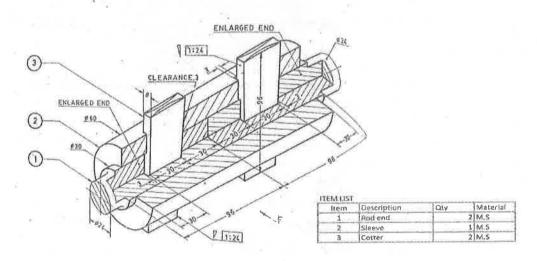
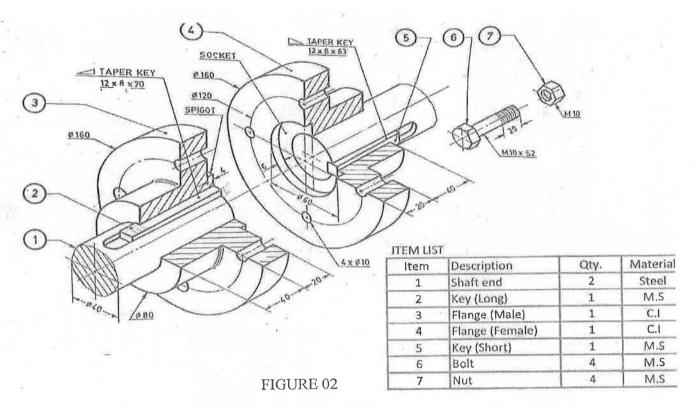
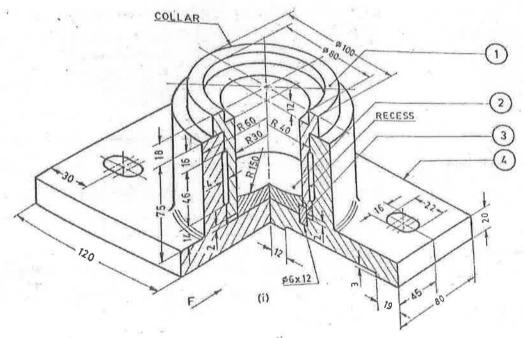


FIGURE .01





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

FIGURE.03

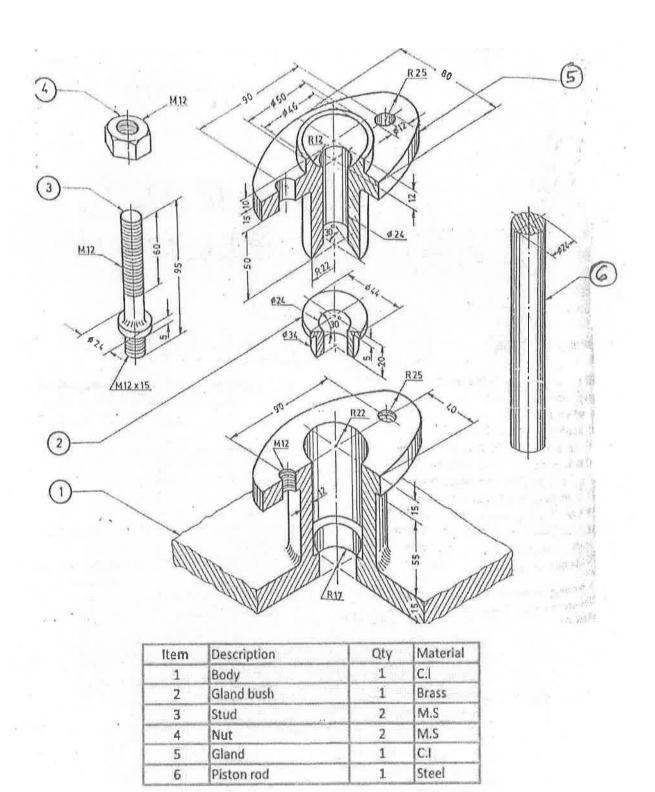


FIGURE . 04