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

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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE, APRIL – 2023

MACHINE DRAWING

[Maximum Marks: 100]

[Time: 3 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.]

UNIT - I

I. Draw the elevation and end view of a Hexagonal headed bolt and nut assembly with a washer. Bolt size M20 of total 90mm length and thread length is 40 mm. (15 Marks)

OR

- II. Draw single views of the following revet heads:
 - (a) Snap head
- (b) Pan head (c) Mushroom head

(15 Marks)

UNIT-II

III. An isometric view of a Bush or Pin type flange coupling is shown in figure 1. Draw the top half sectional elevation and end view. Mark all dimensions. (30 Marks)

OR

IV. An isometric view of a knuckle joint is shown in figure 2. Draw the top half sectional elevation and bottom half sectional plan .Mark all dimensions. (30 Marks)

UNIT-III

An isometric view of a bushed bearing is shown in figure3. Draw the left half V. sectional elevation and top view. Mark all dimensions and prepare the bill materials. (40 Marks)

OR

An isometric view of a foot step bearing is shown in figure 4. Draw the right half VI. sectional elevation looking in the direction of F and plan. Mark all dimensions and (40 Marks) prepare the bill materials.

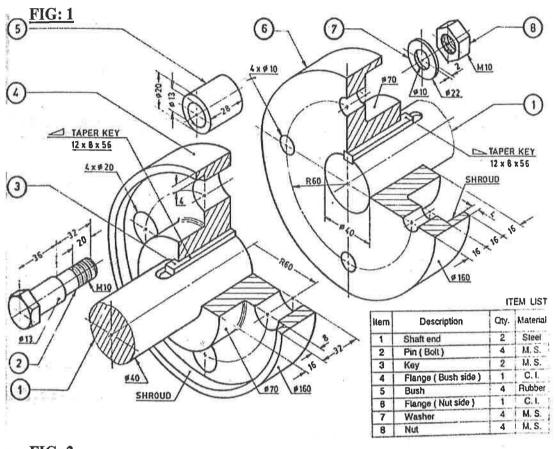
UNIT - IV

- VII. Draw the elementary welding symbols of the following.
 - (i) Square Butt weld
- (ii) single V-Butt weld
- Single U- Butt weld (iv) Single J- Butt weld (iii)
- Fillet weld (v)

(15 Marks)

OR

VIII. Double line orthographic layout for delivery side of water pump is shown in (15 Marks) figure5. Draw the single orthographic layout.



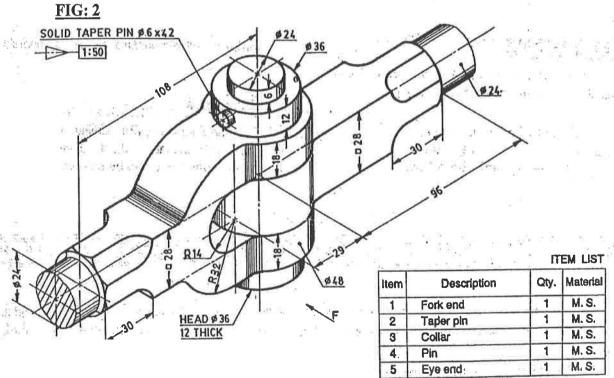


FIG:3

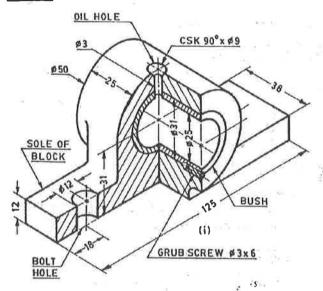


FIG: 4

COLLAR

RECESS

1

RECESS

3

(i)

RECESS

1

R

