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TED (15) - 2005

(REVISION — 2015)

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# DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

#### **ENGINEERING GRAPHICS**

[Time: 3 hours

(Maximum marks: 100)

- [Note: 1. A2 size drawing sheet to be supplied.
  - 2. First angle projection to be followed.
  - 3. Dimensions should be as per BIS.
  - 4. Both sides of drawing sheet can be used.
  - 5. Sketches accompanied.]

#### PART --- A

(Maximum marks: 10)

Marks

- I Answer all questions in one or two sentences. Each question carries 2 marks.
  - 1. Write any four elements of dimensioning.
  - 2. What is an involute?
  - 3. Draw the symbol of first angle projection.
  - 4. What do you meant by orthographic projection?
  - 5. Write the expansion of CADD.

 $(5 \times 2 = 10)$ 

### PART — B

(Maximum marks: 50)

(Answer any five of the following questions. Each question carries 10 marks.)

- II Redraw the given figure -1 to full size and dimension it as per BIS.
- III Draw a parabola of base 90 mm and axis 60 mm using tangent method.
- IV Construct a regular heptagon of side 30 mm.
- V Construct a plane scale of RF = 1:40 to show meters and decimetres and long enough to measure up to 5 meters. Mark on the scale a distance representing 4.3 meters.
- VI Draw projections of the following points on a common reference line.
  - (i) Point A is 30 mm in front of VP and 40 mm above HP.
  - (ii) Point B is 25 mm below HP and 50 mm behind VP.
  - (iii) Point C is in the VP and 30 mm above HP.

fr.t.o.





Marks

- (iv) Point D is 40mm below HP and 20 mm in front of VP.
- (v) Point E is in both HP and VP.
- VII Draw the projections of a square lamina of size 40 mm is inclined 30° to HP and perpendicular to VP.
- VIII Draw the development of a funnel shown in figure- 2.

 $(5 \times 10 = 50)$ 

## PART — C

(Maximum marks: 40)

(Answer any two of the following questions. Each full question carries 20 marks.)

- IX Isometric view of a shaft support is shown in figure 3. Draw the front view in the direction of F, Top view and left side view.
- X Pictorial view of an object is shown in figure 4. Draw the full sectional front view in the direction of F and top view.
- XI Orthographic views of an object are shown in figure 5. Draw the isometric view of the object.  $(2\times20=40)$



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(i)

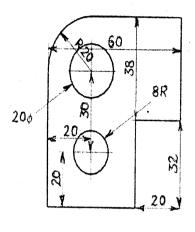


Fig-1

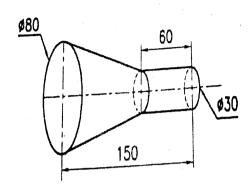


Fig - 2

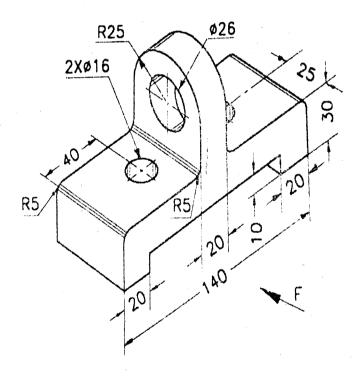


Fig (3)



(ii)

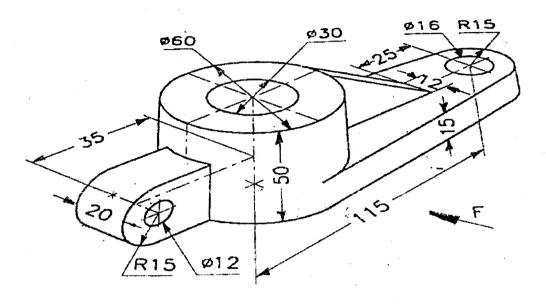
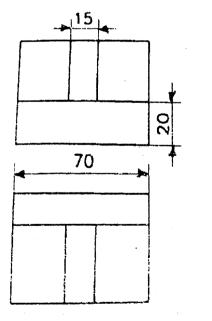


Fig - 4



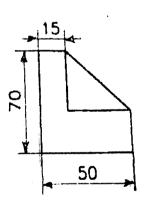


Fig - 5