

S₂ ME

TED (10) – 1017 A

Reg. No.

(REVISION — 2010)

Signature

SECOND SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/
TECHNOLOGY — MARCH, 2015

ENGINEERING GRAPHICS

(Common except DCP and CABM)

[Time : 3 hours

(Maximum marks : 100)

- [Note :—1. A2 size drawing sheet to be supplied.
2. All drawing should be in first angle projections.
3. Dimensioning as per BIS.
4. Sketches are accompanied.]

PART—A

(Maximum marks : 10)

Marks

I Answer all questions in one or two sentences. Each question carries 2 marks.

1. What is Engineering Graphics ?
2. Define Rhombus.
3. What is focal sphere ?
4. Differentiate between Isometric projection and Oblique projection.
5. What is mean by Profile Plane ?

(5×2=10)

PART—B

(Maximum marks : 50)

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

- II Read the dimensioned drawing shown in Fig.1. Redraw the figure and dimension it as per BIS.
- III Inscribe a regular heptagon in a circle, if the length of one side of heptagon is 20mm.
- IV Draw an ellipse by concentric circle method. Give the major and minor axes as 100mm and 60mm respectively.
- V Draw the projections of following points in same reference line.
 - (a) Point P is in H.P. and 30mm in front of VP.
 - (b) Point Q is in V.P and 35mm below H.P.
 - (c) Point R is in both H.P and V.P.
 - (d) Point S is in the H.P. and 35mm behind V.P.
 - (e) Point T is in the V.P. and 30mm above H.P.

- VI The length of the top view of a line parallel to V.P. and inclined at 45° to H.P. is 50mm. One end of the line is 12mm above H.P. and 25mm in front of V.P. Draw the projections of the line and determine its true length.
- VII Fig. 2 shows two views of a tray made from G.I. sheet. Draw its development.
- VIII Isometric view of a forked end is shown in Fig. 3. Draw to scale the front view looking in the direction of F and an auxiliary view of the slant surface. (5×10=50)

PART—C

(Maximum marks : 40)

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

- IX Isometric view of a shaft end support is shown in Fig. 4. Draw the three views of the support.
- X Fig. 5 shows pictorial view of an object. Draw the following views :
- Sectional view in the direction of F.
 - Side view from the right.
 - Top view.
- XI Draw the Isometric view of the object shown in Fig. 6. (2×20=40)
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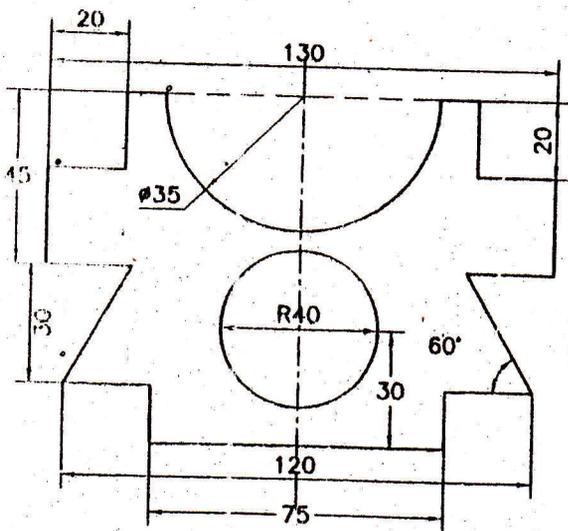


Fig-1

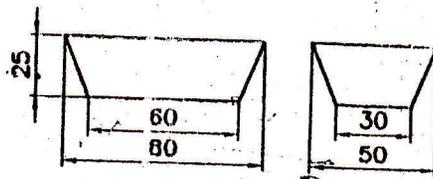


Fig-2

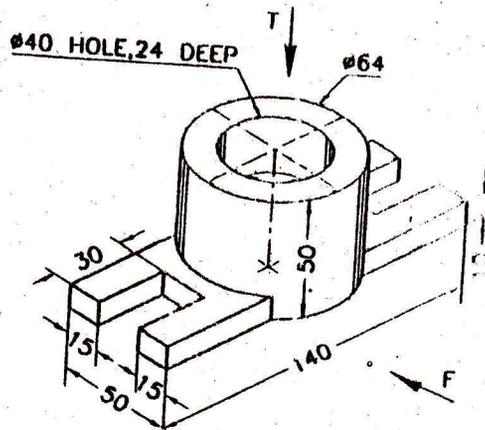


Fig-4

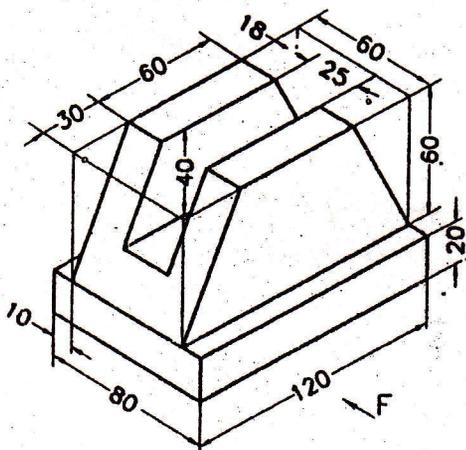


Fig-3

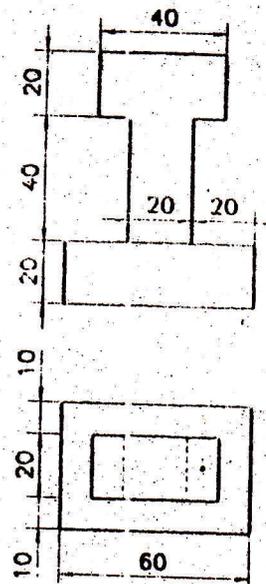


Fig-6

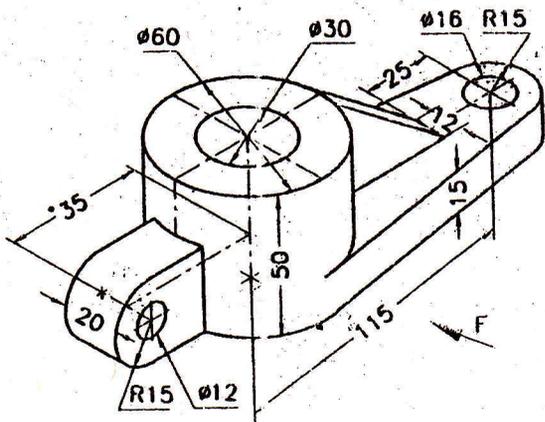


Fig-5