TED (10)–1017 A

Reg. No. .....

(REVISION—2010)

Signature .....

SECOND SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/ TECHNOLOGY—MARCH, 2014

ENGINEERING GRAPHICS

(Common to all branches except DCP and CABM)

[*Time* : 3 hours

(Maximum marks : 100)

[*Instructions* :—1. A2 size drawing sheet will be supplied and both sides can be used.

2. All drawing should be in first angle projections.
3. Theory portions of the questions will be answered in the answer book.
4. Sketches accompanied.
5. Dimensioning as per BIS.]

Marks

PART—A

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

1. Write the uses of set square.
2. Define ellipse.
3. Name the systems of projections.
4. Write the use of drawing auxiliary view.
5. What is an isometric projection ?

(5×2=10)

PART—B

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

II Redraw the given figure 1 and dimension as per BIS.

III Construct a regular hexagon of side 30mm.

IV Construct a parabola by rectangular method, the base 60mm and axis 50mm.

V Draw the projections of the following points. Take the distance between projectors as 25mm :

(a) Point P20mm above HP and 25mm behind the VP.

(b) Point Q 15mm below HP and 35mm in front of VP.

(c) Point R in the VP and 30mm below HP.

(d) Point S 25 mm below HP and 25mm behind the VP.

VI A line PQ, 100mm long, inclined at 45° to HP and 30° to VP. The end P is 20mm in front of VP and 20mm above the HP. Draw the projections of the line.

Marks

VII The isometric view of a slotted block is shown in figure 2. Draw the front view in the direction F and an auxiliary view of the inclined surface. Do not dimension the views.

VIII Draw the development of the elbow shown in figure 3. (5×10=50)

PART—C

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

IX Figure 4 shows the pictorial view of a support block. Draw its front view in the direction F and top view.

X The pictorial view of bearing block is shown in figure 5. Draw the full sectional front view in the direction F and a top view.

XI The orthographic view of a model is shown in figure 6. Draw the isometric view. (2×20=40)

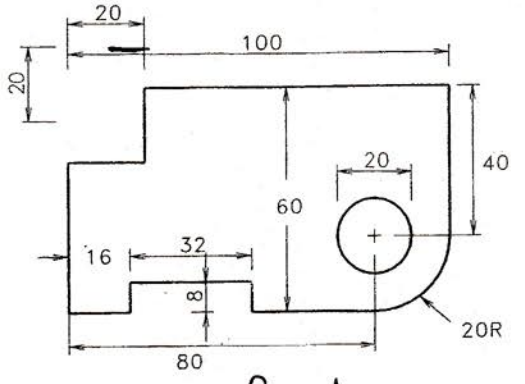

fig : 1

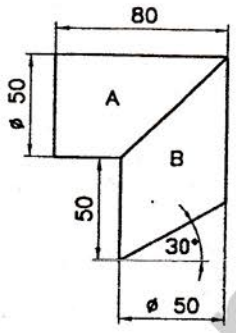

fig: 3.

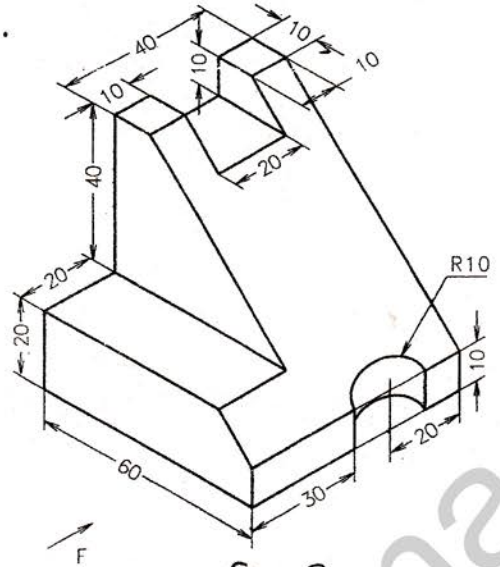

fig: 2.

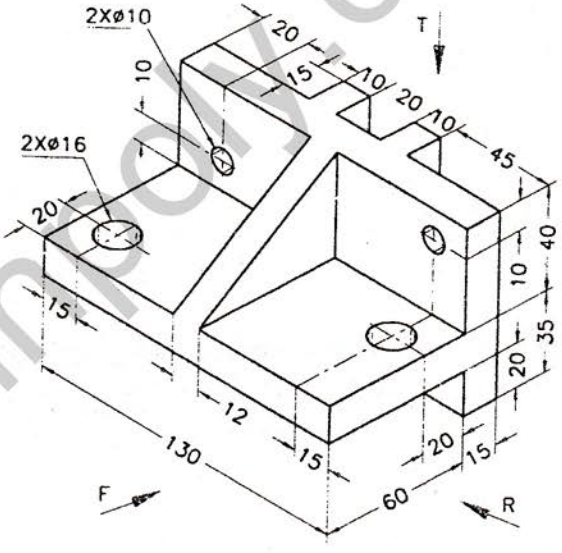

fig : 4

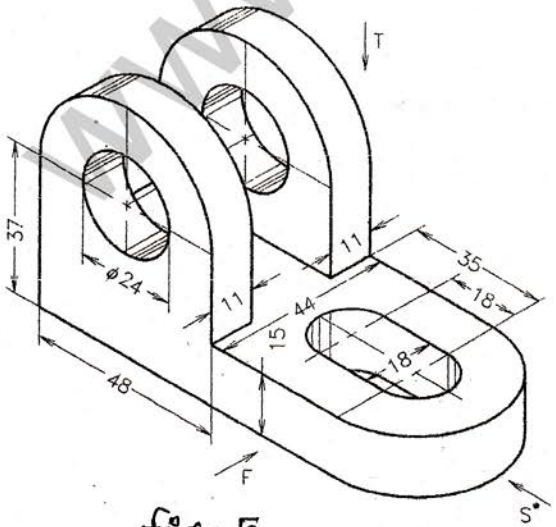

fig : 5.

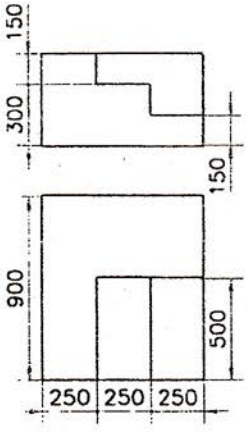

fig : 6.