TED (15) – 2005 B

(REVISION — 2015)

Reg. No. .....

Signature .....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2018

ENGINEERING GRAPHICS

[*Time* : 3 hours

(Maximum marks : 100)

[*Note* :— 1. Data missing if any suitably assumed.

2. Sketches accompanied.]

PART — A

(Maximum marks : 10)

Marks

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

1. What do you mean by dimensioning on a drawing ?
2. Write the name of any two types of lines used in Engineering drawings.
3. What is isometric projection ?
4. Write any two CAD softwares for Engineering drawing using computers.
5. Define Ellipse. $(5 \times 2 = 10)$

PART — B

(Maximum marks : 50)

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

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

III Inscribe a regular pentagon in a circle of diameter 50 mm.

IV Draw the projections of a regular pentagonal plane lamina with side 30mm, parallel to HP and 20mm above HP, is in first quadrant. One of the corners is on VP and one of the edges is perpendicular to VP.

V Distance between the projectors of line AB in first quadrant is 50mm. End A is 15mm above HP and 20mm infront of VP. Also end B is 30mm above HP and 25mm infront of VP. Draw and measure length of the front and top views of line AB.

VI Orthographic projections of a block are given in Fig. 2. Draw the Cavalier oblique projection of the block.

Marks

VII With suitable sketch show the following two types of oblique projections.

(a) Cabinet oblique projection

(b) General oblique projection.

VIII Draw front view and left side view of the object shown in Fig. 3. $(5 \times 10 = 50)$

PART — C

(Maximum marks : 40)

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

IX Isometric view of an object is shown in fig. 4. Draw its front view and left side view.

X Fig. 5 shows the pictorial view of a lever. Draw the sectional view in the direction F and top view.

XI Orthographic views of an object is shown in Fig. 6. Draw the isometric view.

$(2 \times 20 = 40)$