TED (15) – 2005 A

(REVISION—2015)

Reg. No...

Signature ....

SECOND SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/ TECHNOLOGY — MARCH, 2016

ENGINEERING GRAPHICS

(Common to all branches except DCP and CABM)

[*Time* : 3 hours

(Maximum marks : 100)

[*Note* :— 1.   Missing data if any suitably assumed.

2.   Sketches to be accompanied.]

PART — A

(Maximum marks : 10)

Marks

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

1.   What is meant by single stroke lettering.

2.   Define helix.

3.   List four full sectional views of an object.

4.   Write four draw commands used in CAD.

5.   What do you mean by cavalier oblique projection ?   (5×2=**10**)

PART — B

(Maximum marks : 50)

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

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

III   Inscribe a regular pentagon within the circle of diameter 60 mm.

IV   A line 1 cm long represents a length of 4 decimeter. Draw a plain scale and mark a distance of 6.7 meter on it.

V   Draw the projections of following points on a common reference line. Keeping the distance between their projectors 30 mm apart.

    (a)   Point A is 20mm below HP and 50mm in front of VP

    (b)   Point B is in the HP and 40mm behind VP

    (c)   Point C is 30mm in front of the VP and in the HP

    (d)   Point D is 50mm above HP and 30mm behind VP

    (e)   Point E is 20mm below the HP and 50mm behind VP

[315]

[P.T.O.

Marks

VI   A line AB measuring 70mm has its end A 15mm in front of VP and 20mm above HP, and other end is 60mm in front of VP and 50 mm above HP. Draw the projection of the line and find the inclination of the line with both reference plane.

VII   Draw the projection of a square lamina ABCD of 50 mm side resting on its corner A on the HP when it's diagonal AC is inclined at 30° to HP and diagonal BD is perpendicular to VP.

VIII   Draw the Development of the tray shown in figure 2.   (5×10 = 50)

PART — C

(Maximum marks : 40)

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

IX   Figure 3 shows the pictorial view of a shaft support. Draw its front view in the direction of the arrow F and top view.

X   The pictorial view of a shaft support shown in figure 4. Draw full sectional front view in the direction F and top view.

XI   The orthographic view of a shaft support shown in figure 5. Draw the isometric view of the shaft support.   (2×20 = 40)