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

ENGINEERING GRAPHICS

[Time: 3 hours

(Maximum marks: 100)

[Note: -1. Missing data if any may be suitably assumed.

- 2. Sketches are accompanied.
- 3. All drawing should be in first angle projections.]

PART — A

(Maximum marks: 10)

Marks

- I Answer all questions in one or two sentences. Each question carries 2 marks.
 - 1. Write the name of any four types of lines.
 - 2. Define eccentricity of conic section.
 - 3. Write any four elements of dimensioning.
 - 4. Define plane of projection.
 - 5. Write any four commands used in Auto CADD.

 $(5 \times 2 = 10)$

PART — B

(Maximum marks: 50)

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

- II Read the dimensional drawing shown in fig. I. Redraw the fig. I and dimension it as per BIS.
- III Construct a regular octagon of side 20mm.
- IV One focus of an ellipse is at a distance of 30mm from its directrix. Draw the ellipse given the eccentricity as 3/5.
- V Draw the projections of the following points. Take the distance between projectors as 30mm.
 - (a) Point A is 30 mm above HP and 20mm in front of VP.
 - (b) Point B is in HP and 25mm in front of VP.
 - (c) Point C is 25mm above HP and 40mm behind VP.
 - (d) Point D is in VP and 40mm above HP.
 - (e) Point E is in both HP and VP.

Marks

- VI A line AB 65mm long has its end A 20mm above HP and 25mm in front of VP. The end B is 40mm above HP and 65mm in front of VP. Draw the projections of AB and show the inclination with HP and VP.
- VII A regular pentagonal lamina of 40mm side has its plane vertical and inclined 30° to VP. Draw the projections when on of its side is perpendicular to the HP.
- VIII Fig. II shows the two views of a tray. Draw its development.

 $(5 \times 10 = 50)$

PART — C

(Maximum marks : 40)
(Answer any two of the following questions. Each full question carries 20 marks.)

IX Fig. III shows the pictorial view of a block. Draw its front view in the direction of F, Top view and Right side view.

- X Oblique view of an object is shown in Fig. IV. Draw its half sectional front view looking in the direction of F, full plan and left side view.
- XI The orthographic views of a support are shown in Fig. V. Prepare an isometric drawing. $(2\times 20=40)$



