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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2023

ENGINEERING GRAPHICS

(Maximum Marks: 100) (Time: 3 Hours)

[Note:- 1. A2 size drawing sheet to be supplied.

- 2. First angle projection method to be followed.
- 3. Dimensions should be as per BIS.
- 4. Both sides of the drawing sheet can be used.
- 5. Sketches on next page.
- 6. Any missing data can be suitably assumed.

PART - A

(Maximum Mark: 10)

Marks

- I. Answer *all* the questions in one or two sentences. Each question carries 2 marks.
 - 1. List different types of lines used in engineering graphics.
 - 2. Define an ellipse.
 - 3. List different types of oblique projection.
 - 4. What is profile plane?
 - 5. What is Auto CADD?

 $(5 \times 2 = 10)$

PART - B

(Maximum Mark: **50**)

- II Answer *any five* of the following questions. Each question carries **10** marks.
 - 1. Read the dimensional drawing shown in Figure 1. Redraw the Figure 1 and dimension it as per BIS.
 - 2. Draw any ellipse by concentric circle method given in major and minor axis in the ratio 3:2. Give the major axis is 135mm.
 - 3. Construct an involute of a circle of diameter 50mm.
 - 4. Draw the projections of the following points. Take the distance between the projectors as 30mm.
 - a) Point A is in VP and 35mm above HP.
 - b) Point B is in HP and 30mm behind VP.
 - c) Point C is in both HP and VP.
 - d) Point D is in VP and 30mm below HP.
 - e) Point E is 35mm above HP and 35mm in front of VP.

- 5. Draw the projection of a line AB 100mm long inclined 30° to HP and 45° to VP. The end A of the line is 25mm above HP and 50mm in front of VP. Mark the angle made by the line with X-Y line.
- 6. Draw the development of a small tray as shown in Fig.2
- 7. Draw isometric view of a cylinder of diameter 40mm and length 60mm. If it is resting on one of its circular bases.

 $(5 \times 10 = 50)$

PART - C

(Maximum Mark: 40)

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

- III The pictorial view of the object shown in Fig.3. Draw the front view in the direction of F and top view in the direction T and side view in the direction S.
- IV. The orthographic view of an object shown in Fig.4. Prepare the isometric drawing.
- V. Pictorial view of a machine block shown in Fig.5. Draw the front view in the direction of Arrow F, top view and also front auxiliary view of the sloping surface.

 $(2 \times 20 = 40)$







