TED (10) - 1017

(REVISION - 2010)

Reg. No.

Signature

SECOND SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/ TECHNOLOGY — MARCH, 2015

S2 PL, ARCH

ENGINEERING GRAPHICS (Common for all branches except DCP and CABM)

[Time: 3 hours

(Maximum marks : 100)

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

- 2. All drawing should be in first angle projections.
- 3. Both sides of the drawing sheet can be used.
- 4. Dimensioning as per BIS.
- 5. Sketches are accompanied.]

PART-A

(Maximum marks : 10)

Marks

 $(5 \times 2 = 10)$

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

1. What are the recommended reduction scales used in Engineering Graphics ? (any four)

2. What are the shape indications are recommended by BIS in dimensioning ?

- 3. Write the classification of primary auxiliary views.
- 4. What are the important full sectional views of an object ?
- 5. What are the different types of oblique projections ?

PART-B

(Maximum marks : 50)

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

- II Redraw the given Fig. 1 to full size and dimension as per BIS.
- III Inscribe a regular heptagon in a circle, if the length of one side of the heptagon is 20mm.
- IV One focus of an ellipse is at a distance of 30mm from its directrics. Draw the curve, given the eccentricity as $3/_5$.
- V Draw an involute of a triangle of 30mm side.

[234]

Marks

 $(5 \times 10 = 50)$

- VI Draw the projections of the following points. Take the distance between projectors are 30mm.
 - (a) P is 30mm above HP and 40mm on front of VP.
 - (b) Q is 25mm above HP and 35mm behind VP.
 - (c) R is 32mm below HP and 38mm behind VP.
 - (d) S is 36mm below HP and 15mm in front of VP.
- VII The end A of line AB of length 80mm is in the HP and 20mm in front of VP. If the line is inclined 45° to HP and 30° to VP draw its projections, and measure there inclinations with the XY line.
- VIII Draw the development of a funnal shown in Fig. 2.

PART-C

(Maximum marks : 40)

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

- IX Fig. 3 shows the pictorial view of a bracket, Draw the front view in the direction of F, Top view and left side view.
- X A pictorial view of an object shown in fig. 4, draw the following views :
 - (i) Sectional view in the direction of F.
 - (ii) Side view from the right.
 - (iii) Top view.
- XI Orthographic views of a guide block shown in fig. 5. Draw oblique (Cavalier) view of the guide block, show all the dimension on it. $(2\times20=40)$

Edition of Albert Art (1991) - 11 - A from the book of the address in the relation

and taken in the second se

Not the a hardward in the line of the party of the

ales had been exceeded and the second







3









Fig 5