

N20 - RA0101

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Signature

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER – 2020

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

[Maximum Marks: 100]

[Time: 3 Hours]

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

- 2. All drawing should be in first angle projection.3. Both sides of the drawing sheet can be used.
- 4. Dimensioning as not DIS
- 4. Dimensioning as per BIS.
- 5. Sketches accompanied.]

PART-A

[Maximum Marks: 10]

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

- I. 1. Mention any four applications of a continuous thin line.
 - 2. What is an inviolate?
 - 3. Specify position of views in first angle projection.
 - 4. What is mean by foci distance?
 - 5. Name the different type of oblique projection.

 $(5 \times 2 = 10)$

PART-B

[Maximum Marks: 30]

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

- II. Redraw the given fig. 1 to full size as per BIS.
- III. Construct a regular hexagon of size 40mm.
- IV. Focus of an ellipse is at a distance of 30mm from its directrix. Draw the ellipse given the eccentricity as 3/5. Draw a tangent and normal at appoint 30mm from the centre of the ellipse.
- V. Draw the projections of the following points. Distance between projectors is 30mm
 - (a) Point A is 15mm above HP and 20mm in front of VP.
 - (b) Point B is 18mm below HP and 10mm behind VP.
 - (c) Point C is in both HP & VP.
 - (d) Point D is 17mm below HP and 22mm in front of VP.
- VI. A line AB 80mm long is inclined at 40° to HP and its top view makes an angle 55° with xy line. The end A is 10mm above HP and 15mm in front of VP. Draw its projections.
- VII. Draw the development of the elbow shown in fig. 2.
- VIII. Fig.3 shows the pictorial view of a machine element. Draw the elevation in F direction and an auxiliary view of the slopping surface. $(5 \times 10 = 50)$

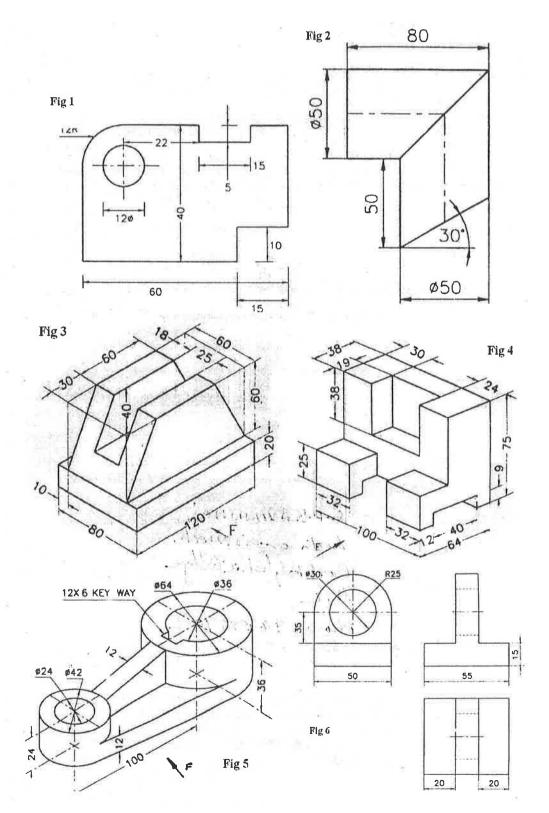


PART-C

[Maximum Marks: 60]

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

- IX. Pictorial view of an object is shown in fig.4. Draw the following orthographic views.
 - (a) Front view in the direction of F.
 - (b) Top view.
 - (c) Right side view.
- X. The pictorial view of an object is shown in fig. 5. Draw the following views.
 - (a) Full sectional elevation in the direction of F.
 - (b) Top view





Orthographic views of an object are shown in Fig.6 Draw the isomethetos: ### Uppt thirty angadi.in

 $(2 \times 20 = 40)$
