TED (15) 2005A
(Revision- 2015)

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

ENGINEERING GRAPHICS

(Maximum Marks: 75) [Time: 2.15 hours]

[Note:- 1. Missing data if any suitably assumed.
2. Sketches to be accompanied.
3. A 2 size drawing sheet to be supplied.
4. Sketches accompanied. Dimension as per BIS.)

PART - A

I. Answer **any three** questions in one or two sentences. Each question carries 2 marks.

1. Name the preferred sizes of drawing sheet and its designation.
2. List any four types of conical sections.
3. State cavalier oblique projection.
4. What is meant by profile plane?
5. Name any four types of facilities for entering commands on AUTO CAD. (3x2=6)

PART - B

Answer **any four** of the following questions. Each question carries **11 marks**.)

II. Read the dimensional drawing shown in figure-1 Redraw the figure and dimension it as per B.I.S.

III. A circle of diameter 50 mm is given. Inscribe a regular pentagon within the circle.

IV. Draw an ellipse having a major axis of 100 mm and minor axis of 60 mm using concentric circle method.

V. Draw the projections of the following points. Take the distance between projectors as 30mm.

(1) Point A is 30 mm above HP and 20 mm in front of VP.

(2) Point B is in HP and 25 mm in front of VP.

(3) Point C is 25 mm above HP and 40 mm behind VP.

(4) Point D is in VP and 40 mm above HP.

(5) Point E is in both HP and VP.

VI. The length of elevation of a line GH which is parallel to HP and inclined at 30^0 to VP is 50 mm. The end G of the line is 15 mm in front of VP and 25 mm above HP. Draw the projections of the line and find its true length.

VII. Draw the Development of an elbow shown in figure-2.

VIII. Figure-3 shows Isometric view of a machine block having a sloping surface. Draw the front view in the directions of F, top view and an auxiliary view of the inclined surface.

[4x11 =44]

PART - C

(Answer **any one** question from the following carries **25 marks**)

IX. The pictorial view of a horizontal support is shown in figure-4. Draw the front view in the direction of F, top view and left side view.

X. The orthographic view of a support are shown in figure-5. Draw its Isometric view.

XI. The pictorial view of an object shown in figure-6. Draw full sectional front view in the direction F and side view from right.

(1x25=25)

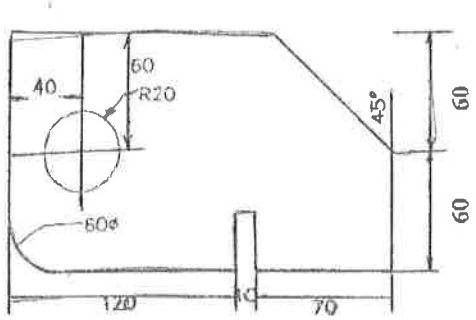

Figure 1

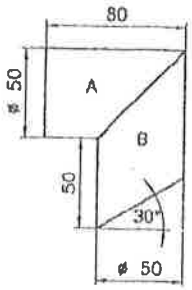

Figure 2

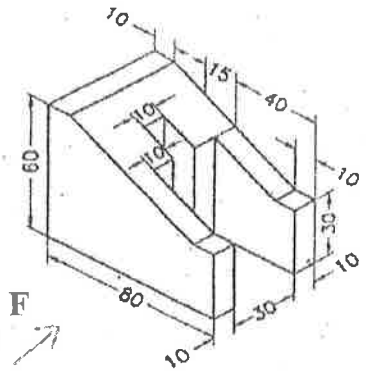

Figure 3

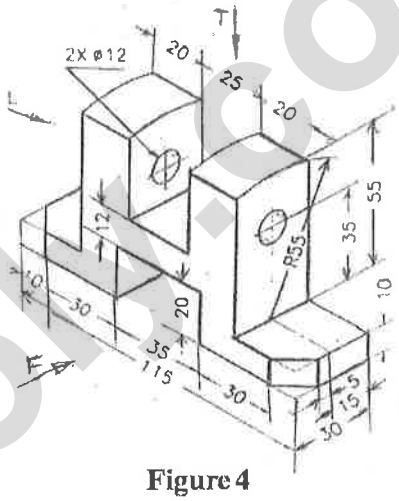

Figure 4

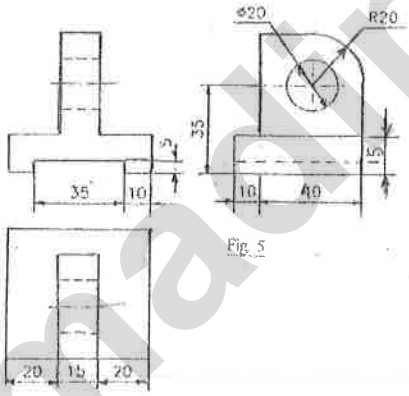

Fig. 5

Figure 5

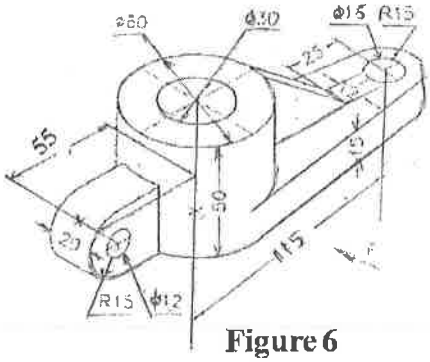

Figure 6