

TED (10) 1017
(Revision-2010)

N19 - 05012

Reg.No.....
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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE OCTOBER/NOVEMBER-2019

ENGINEERING GRAPHICS

[Maximum marks: 100]

(Time: 3 Hours)

[Note: 1. Both sides of drawing sheet can be used.

2. Drawings should be in first angle projection.
3. Theory questions can be answered in answer book.
4. Sketches accompanied.
5. Dimensioning as per BIS.]

PART – A

[Maximum marks: 10]

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

- (1). Name any four drawing instruments.
- (2). What do you understand by conic sections?
- (3). Differentiate between first angle projection and third angle projection.
- (4). What is the application of drawing auxiliary view.
- (5). What is meant by pictorial drawing.

(5 x 2 = 10)

PART – B

[Maximum marks: 50]

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

- II. Redraw given figure 1 and dimension as per BIS.
- III. Draw a regular hexagon of 40mm side.
- IV. The major axis of an ellipse is 110 mm and minor axis is 70mm long. Draw the ellipse by concentric circle method.

- V. Draw the projections of the following points on a common reference line.
- (a) Point A is in both HP and VP.
 - (b) Point B is 20 mm below HP and 10 mm in front of VP.
 - (c) Point C is 20 mm above HP and 30 mm behind VP.
 - (d) Point D is 20 mm below HP and 10 mm behind VP.
 - (e) Point E is 25 mm above HP and 25 mm behind VP.
- VI. A line AB, 60 mm long is parallel to HP and 20 mm above it. Point A is 30mm and point B is 60 mm in front of VP. Draw the projections of the line.
- VII. Two views of a tray made of sheet metal are shown in Figure 2. Develop all the surfaces of the tray.
- VIII. A cylinder of diameter 40mm and height 75 mm rests on lateral surface on HP such that its axis is perpendicular to VP. Draw the oblique projection of the cylinder by cabinet method when the receding axis is inclined at 30° . (5 x 10=50)

PART – C

[Maximum marks: 40]

(Answer any two question from each unit. Each question carries 20 marks)

- IX. Figure 3 shows the sketch of a casting. Draw the following views. (9)
- (a) Front view in the direction of F. (b) Side view in the direction of S.
 - (c) Top view.
- X. Figure 4 shows a cast iron block. Draw the following views.
- (a) Sectional front view in the direction of F. (b) Half sectional side view through S.
 - (c) Top view.
- XI. Front view and top view of an object is shown in Figure 5. Draw the isometric view. (2x20=40)

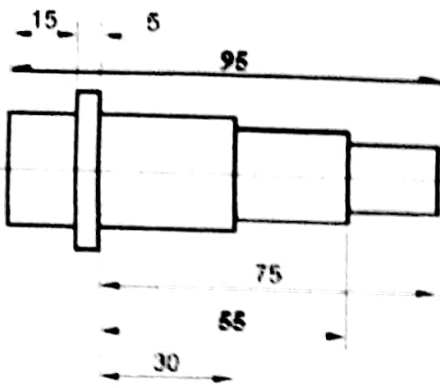


Fig 1

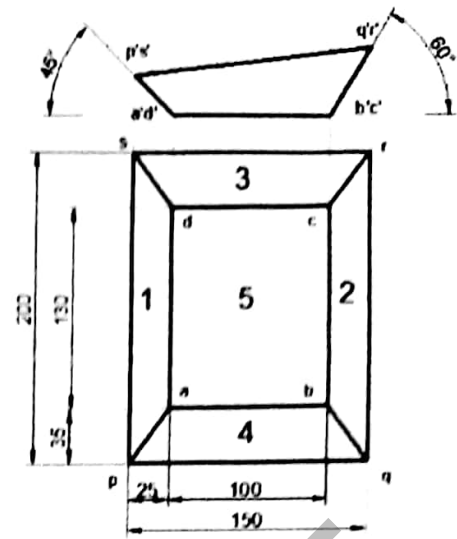


Fig 2

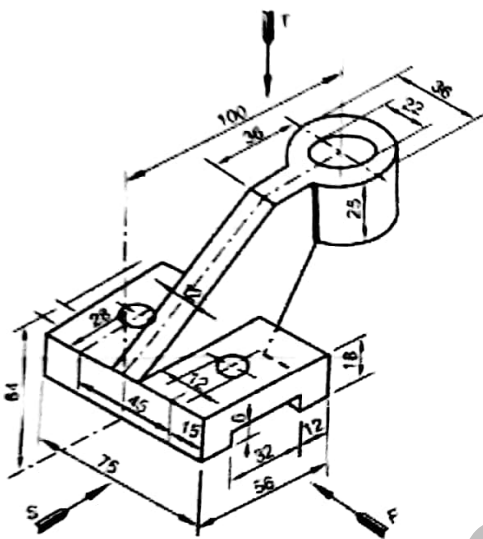


Fig 3

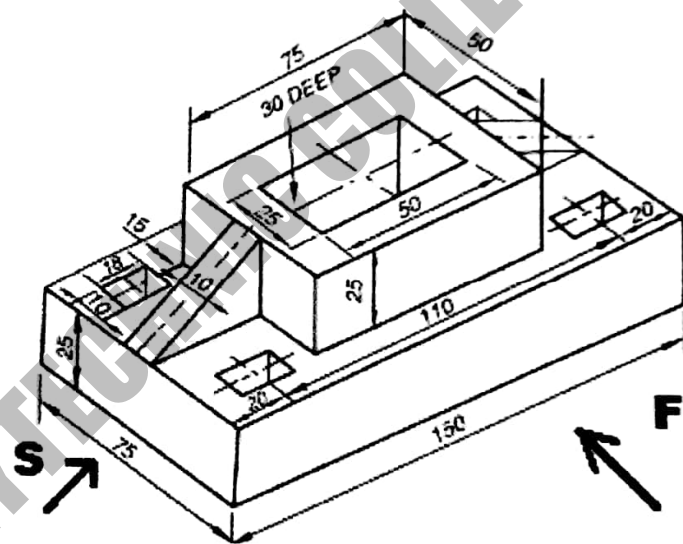


Fig 4

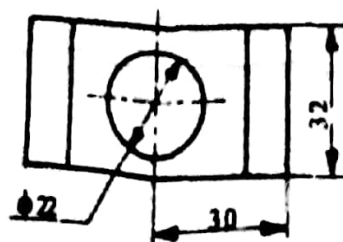
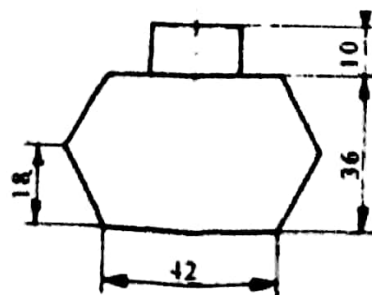


Fig 5