

Total No. of Questions—8]

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[4756]-105

F.E. (First Semester) EXAMINATION, 2015

ENGINEERING GRAPHICS-I

(2012 PATTERN)

Time : Two Hours

Maximum Marks : 50

N.B. :— (i) Answer Q. No. 1 or Q. No. 2, Q. No. 3 or Q. No. 4,
Q. No. 5 or Q. No. 6, Q. No. 7 or Q. No. 8.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data if necessary.

(iv) Retain construction lines.

(v) Marks are reserved for dimensioning and good presentation.

1. The TV of a 80 mm long line AB measures 50 mm. The point A is 50 mm in front of VP and 20 mm above HP. The point B is 20 mm in front of VP and is above HP. Draw the projection of line AB and find its inclination with the HP and VP also locate its traces. [12]

P.T.O.

Or

2. A thin rectangular plate of size 70 mm \times 40 mm appears as a square of side 40 mm in TV with one of its side inclined at 30° to VP and parallel to HP. Draw the projection of the plate and determine its inclination with HP. [12]
3. A pentagonal prism of base 30 mm side and axis 60 mm long is resting on a corner of its base on HP with a longer edge containing that corner inclined at 45° to the HP and vertical plane containing that edge and axis inclined at 30° to the VP. Draw its projection. [13]

Or

4. (a) Draw an involute of a circle of 50 mm diameter. [7]
- (b) A right circular cone of a base diameter 50 mm and axis height 60 mm has its base on HP. Draw the development of lateral surface of cone. [6]
5. The following Fig. 1 shows a Cast iron bracket. By using first angle projection method draw : [13]
- (i) Front View

(ii) Top View

(iii) Sectional LHSV along plane X-X.

Give all the dimensions

[13]

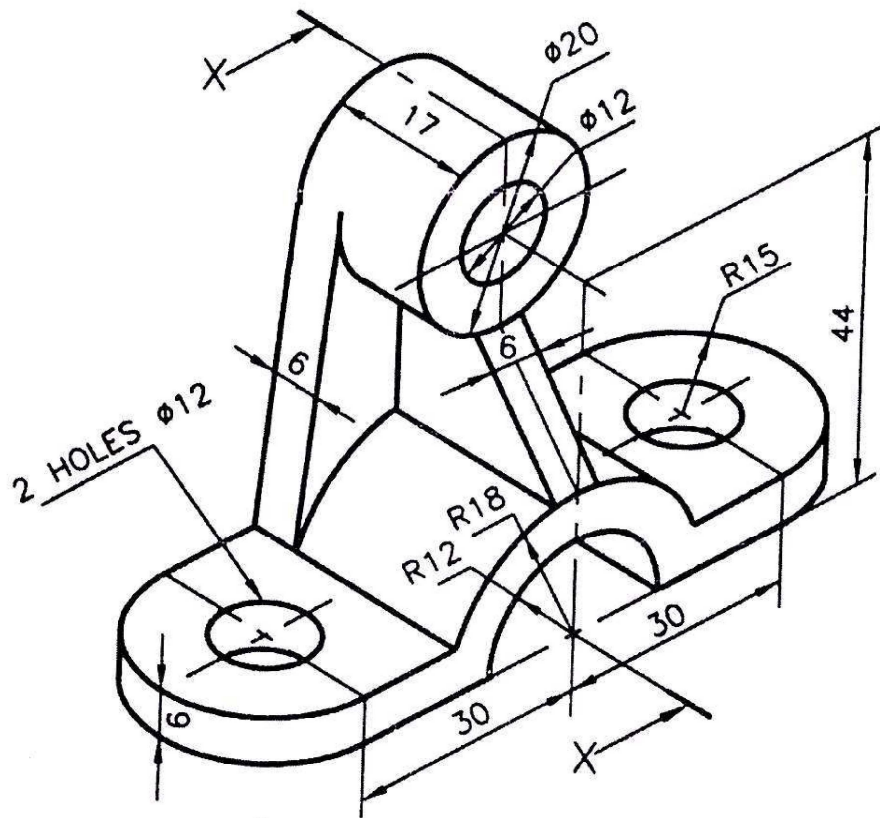


Fig. 1 C.I. Bracket

Or

6. The following Fig. 2 shows a cast iron bracket. By using first angle projection method, draw : [13]

(i) Sectional front view

(ii) Top view

(iii) RHSV

Give all the dimensions

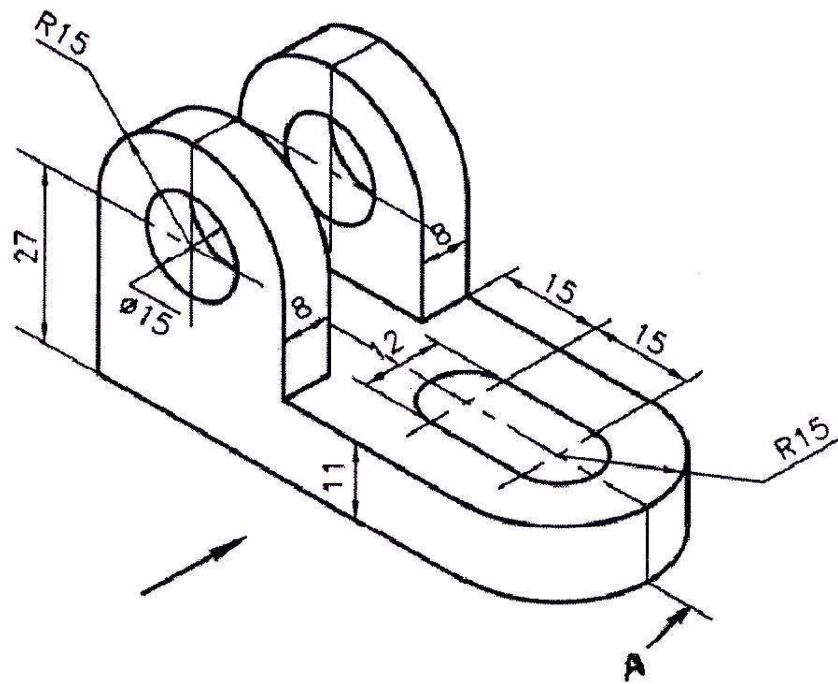


Fig. 2 C.I. Bracket

7. Fig. 3 shows the FV and LHSV of an object. Draw the isometric views using natural scale. [12]

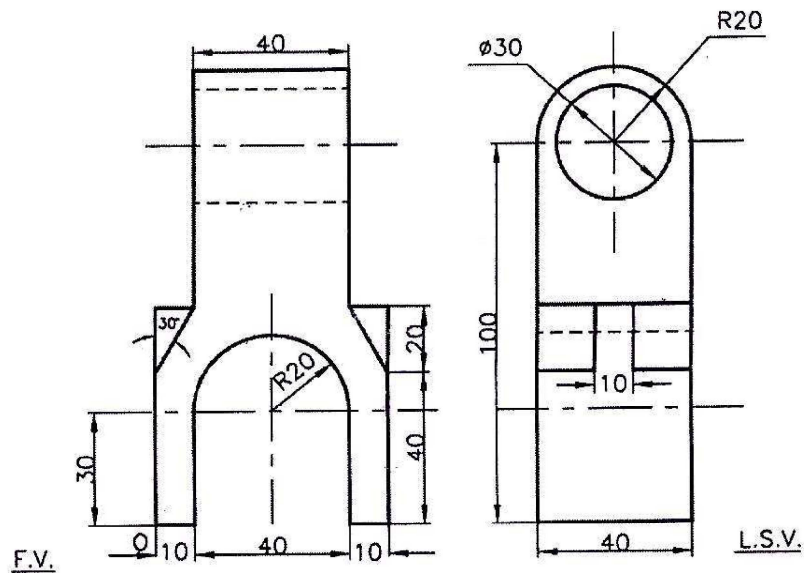


Fig. 3

Or

8. Fig. 4 shows the FV and RHSV of an object. Draw the isometric view using natural scale. [12]

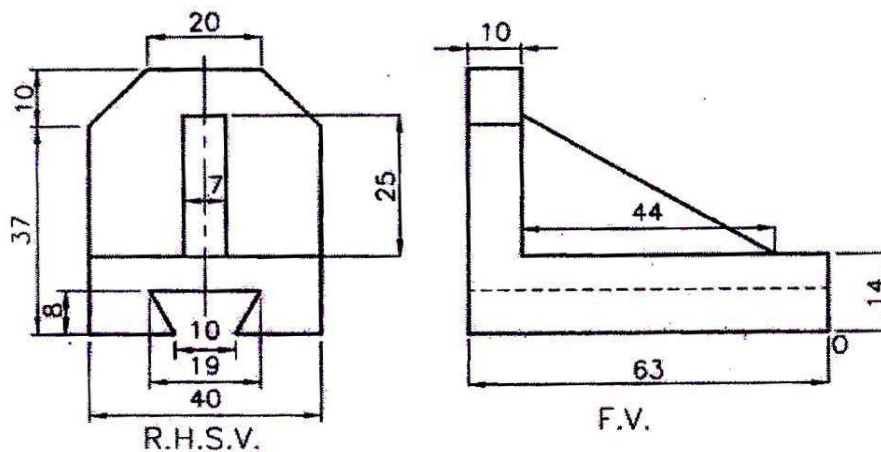


Fig. 4