

Model Question Paper of Engineering Graphics

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End Semester Examination - December 2019

Branch : F.Y. B.Tech
Subject : Engineering Graphics (EG1203)
Date : 02/12/2019

Semester - I
Marks = 60
Time : 4 hours

Instructions to the Students : -

1. Each question carries 12 marks.
2. Attempt *any five* questions out of the following six questions.
3. Illustrate your answers with neat sketches, diagrams, etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.

- Q.1. a) What are the two systems of dimensioning used in engineering drawing ?
Illustrate your answer with sketches. **1.14 , 1.10.2** (6)
- b) Inscribe a circle in a regular pentagon of 50 mm side. **2.12 , Ex 39** (6)
- Q.2. Draw the following views of the object (in X-direction) shown in fig. 1, by using first angle projection method.
- a) Front View **3.20 , Qn 17** (6)
- b) Top View (6)

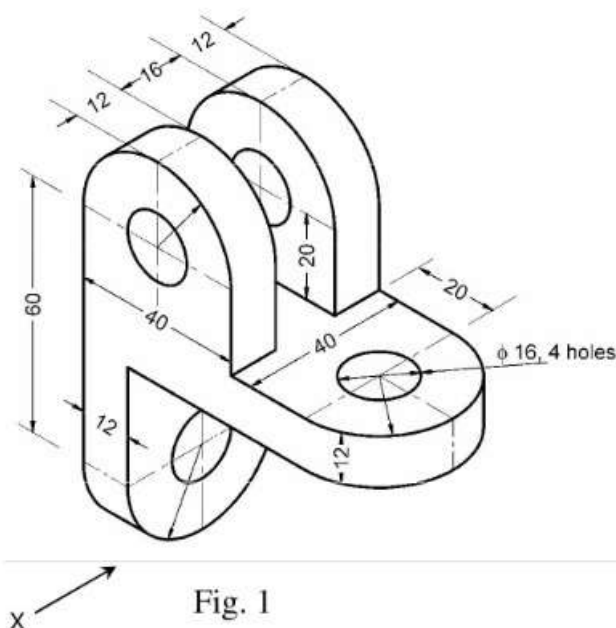


Fig. 1

- Q.3. A line AB is in the first quadrant. Its ends A and B are 20 mm and 60 mm in front of the V.P. respectively. The distance between the end projectors is 75 mm. The line is inclined at 30° to the H.P. and its H.T. is 10 mm above X-Y line. Draw the projections of line AB and determine its true length and the V.T. **5.31 Qn 42** (12)

OR

- A regular pentagonal plate, side 40 mm has one of its sides parallel to both the reference planes. Draw its projections, when it is resting with a corner opposite to the side mentioned earlier in H.P. and its surface inclined at 40° to H.P. (12)
- Q.4. A cone has base of 60 mm diameter and axis 80 mm long. A point on its base circle is in the H.P. The axis is making an angle of 30° with H.P. and 45° with the V.P. Draw the projections of the cone. (12)
- Q.5. A square pyramid base 30 mm side and axis 50 mm long stands vertically on the H.P. with edges of base equally inclined to V.P. It is cut by a section plane inclined at 45° to H.P. passing through a point on axis 20 mm away from the apex. Draw front view, sectional top view, sectional side view and true shape of section. **9.9 Qn 4** (12)
- Q.6. Fig. 3 shows F.V. and T.V. of an object using first angle projection method. Draw its isometric view. (12)

10.25 Qn 43

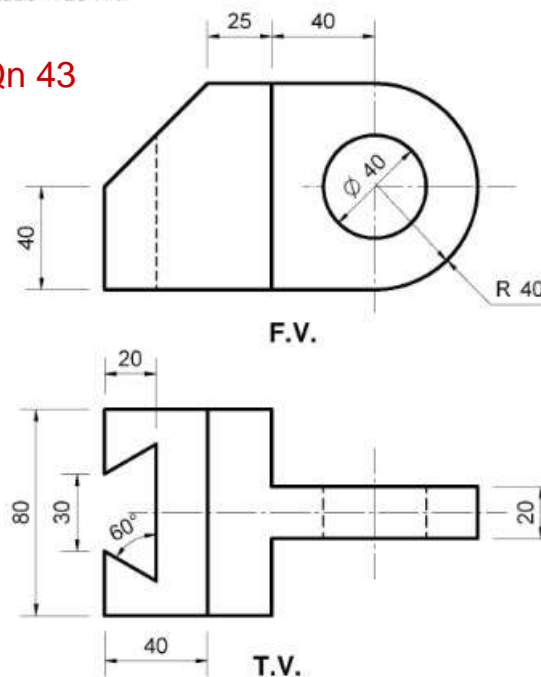


Fig. 2
