

S.B. Roll No. _____

ENGINEERING DRAWING-I
1st Exam/Mech/Auto/Prod./2655/Dec-2011

Duration: 3 Hrs.

M. Marks: 100

Note : Attempt any five questions

Section-A

- Q1.(a) Print the following, sentence in upper case single stroke, vertical letters with height=8mm in the ratio 7:4 "EARTH IS ROUND" 10
(b) Show five different types of lines used in engineering drawing, giving their purpose. 10
- Q2 (a) Show with sketches what are (i) Size dimensions (ii) Location dimensions 10
(b) Give sketches to show how the following are dimensional: threaded holes, angles, tapered surfaces, countersink holes, curves 10
- Q3 Construct a diagonal scale of 1:50 to show meters, decimeters and centimeters, long enough to measure up to 6 meters. Indicate on this scale a distance of 4.65 meters. 20
- Q4 (a) End A of line AB is 20mm above HP and 35mm in front of VP while end B is 15mm behind VP and 30mm below HP. Draw projections of the line taking distance between its end projective as 50mm. 10
(b) Draw projections of a line PQ, 50mm long lying with one of its ends touching VP. The line is parallel to HP and perpendicular to VP and is 25mm above HP. 10
- Q5 Isometric view of an object is given in fig.1. Draw its front view, top view and side view. 20
- Q6.(a) Give conventions for showing section of (i) cast iron (ii) Gun metal (iii) White metal/lead (iv)Wood (v) Asbestos 10
(b) Show conventional breaks for the following: 10
(i) Rectangular Section
(ii) Round Section
(iii) Pipe or tubing
(iv) Rolled Section
(v) Channel Section
- Q7 A cylinder of base diameter, 50mm and height 100mm rests centrally over a cube of 60mm sides. Draw isometric view of the assembly. 20
- Q.8(a) Two views of an object are given in Fig.2. Draw its third view. 10
(b) Three views of an object is shown in fig.3 with some missing lines. Provide the missing lines and complete the views. 10

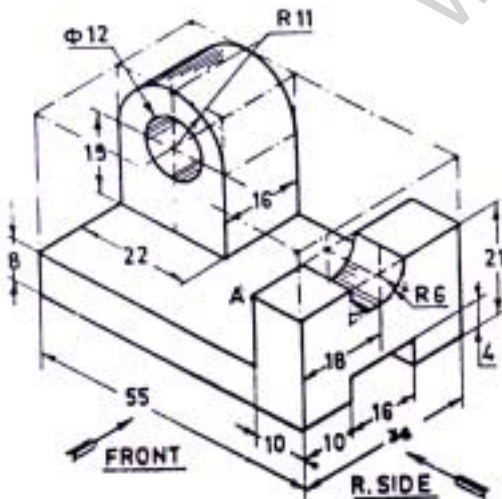


Fig. 1

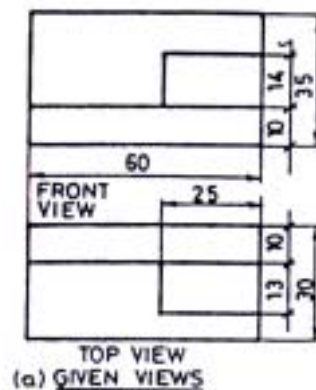


Fig. 2

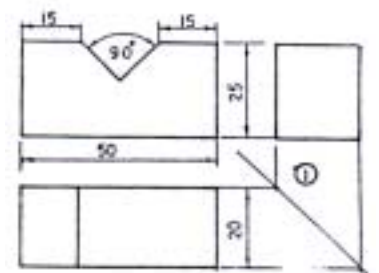


Fig. 3