

ENGINEERING DRAWING-I

1st /Common/2655/0551/5405/Nov'15

Duration: 3 Hrs

M.Marks=100

Note: SECTION-A is compulsory.

SECTION-A

Q.1 Fill in the blanks.

10x1.5=15

- Length of an arrowhead istimes the thickness of the line.
- The convention of third angle projection is
- A radius is denoted by
- Representative fraction is ratio of
- In the third angle projection top view is above the
- Surfaces can be identified both inandviews.
- Thin sections are shown entirely
- Isometric length istimes the true length.
- The isometric view of a circle is
- A hidden object is shown byline.

SECTION-B

Q.2 Attempt any FIVE questions.

5x7=35

- What is importance of dimensioning? Explain chain and parallel dimensioning
- What is R.F.? What will be the length of scale to measure 900 km having R.F. 1/5000000?
- What is the difference between third angle and first angle projection?
- Explain with neat sketch different types of sections.
- Draw isometric projection of a cube 40 mm side resting on a square block of 25mm thickness and 70 mm side.
- Construct a plane scale to show metres and decimeters. Show on it a distance of 8m 1 dm. R.F.= 1/60.
- Print free hand 10 mm height in capital letters the following
- "HONESTY IS THE BEST POLICY".
- What is difference between full sectional view and half sectional view? How much part of the object is assumed to be removed?

SECTION-C

Q.3 Attempt any TWO questions.

2x25=50

- Figure 1** shows pictorial view of an object. Draw to a full size scale, the following views in third angle projection.
 - Front View
 - Top View Outside.
 - Right side View.
- Figure 2** shows pictorial view of an object in which various surfaces are marked by different alphabets. Identify and mark various surfaces in orthographic views.
- A cube of 40 mm edge is placed on a cylindrical slab, 75 mm in diameter and 45 mm thick. On the top of the cube, rests a square pyramid, altitude 40 mm and side of base 25 mm. The axes of solids are in the same straight line. Draw isometric view of the solid.

FIGURE ATTACHED

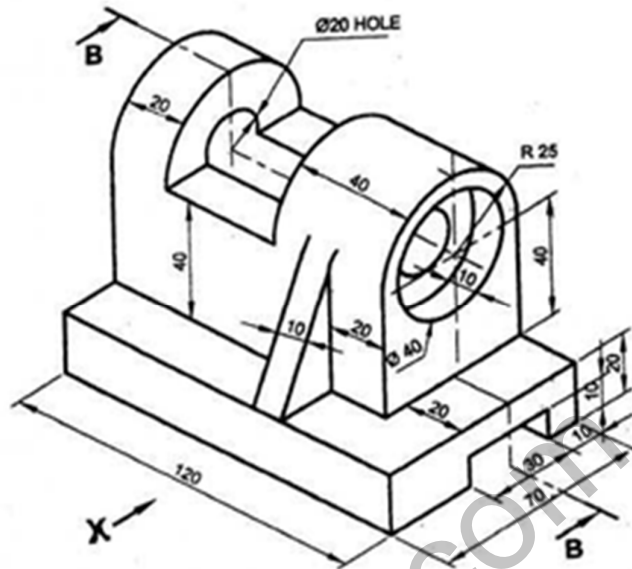


Figure 1.

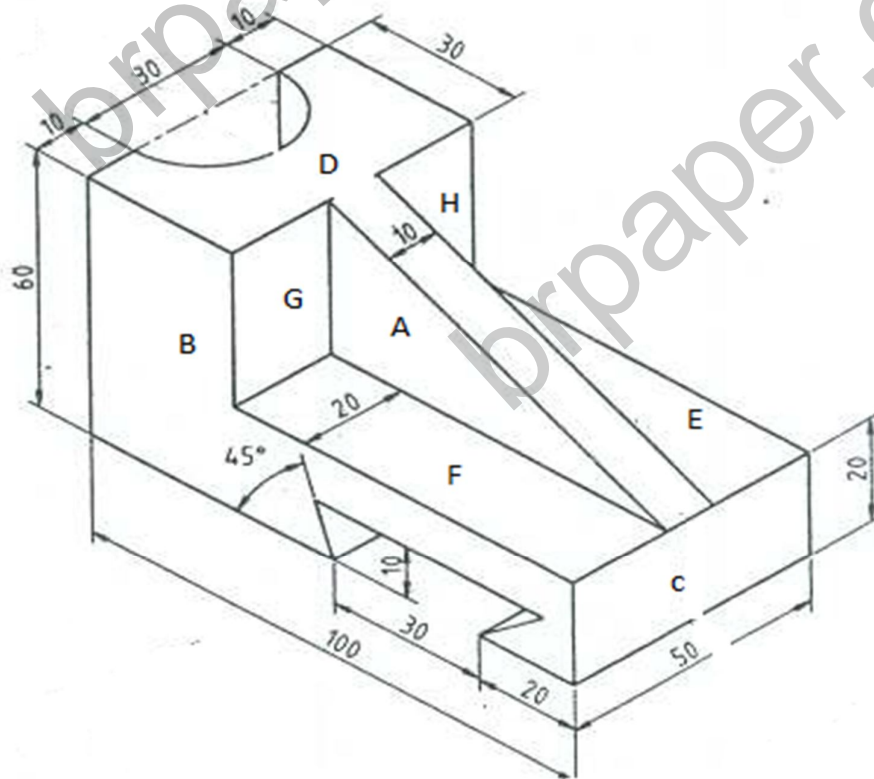


FIGURE 2