

ENGINEERING DRAWING-I

1st Exam/Civil/Electrical/Comp/IT/CSc/Aerospace/2655/May'17

Duration: 3 hrs

M. Marks: 100

SECTION – A

Q1. Fill in the blanks:

1.5x10=15

- Plain scale gives measurements in _____ units.
- To draw circles and arcs of circles _____ is used.
- The purpose of sectioning is to show the _____ shape of the object.
- Half size scale is indicated as _____
- Isometric view of an circle is an _____
- An object is assumed to be situated in behind of V.P and below H.P is in _____ quadrant.
- In fourth quadrant front view and top view _____ each other.
- Length of scale = _____
- Isometric length = _____ x True length.
- In lettering, size of letters is described by their _____

SECTION –B

Note: Attempt any three questions.

15x3=45

Q2 Draw the symbols representing the following materials

- Glass
- Wood
- Earth
- Cast iron
- Stone

Q3 The distance between two railway station is 600 Kilometres and it is represented on railway map by 12 cm. Find the RF of the scale. Construct a diagonal scale to measure up to a single kilometre. Measure a distance of 417 km, 495 km and 349 km on the map.

Q4 Draw single stroke vertical capital letters of ratio 7:4 taking height 8mm

“DRAWING IS THE LANGUAGE OF ENGINEERS”

Q5 A line 60 mm long is inclined at 45° to the V.P. It is parallel to H.P and 20mm above it. Draw its elevation.

Q6 (a) What is difference between first angle and third angle projection?

(b) What is difference between full sectional and half sectional view?

SECTION – C

Note: Attempt any two questions:

20x2=40

Q7 A circular disc of diameter 70mm and height 30mm lies on ground along its circular face. A frustum of square pyramid with top edges 20mm, bottom edges 40mm and height 50mm is placed centrally on the top of the circular disc. Draw the isometric projection of combination of solids.

Q8 Figure 1 shows isometric view of an object. Draw to a full size scale, the following views in first angle projection:

- Front view
- Top view
- Side view

Q9 Figure 2 shows isometric view of an object. Draw the following view to a suitable scale

- Front view left half in section
- Top view

Contd....

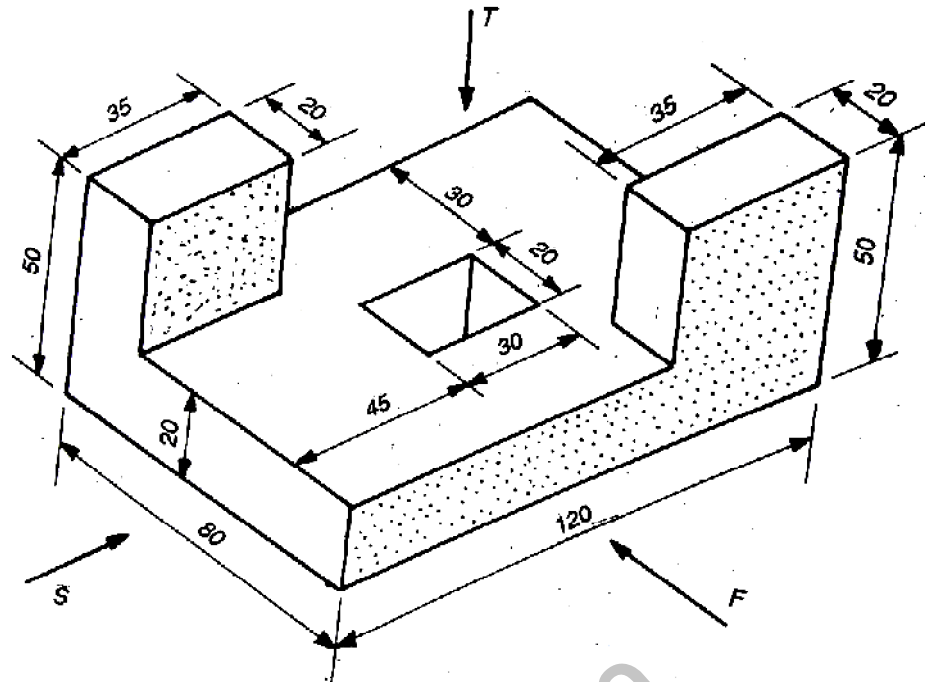


Figure 1

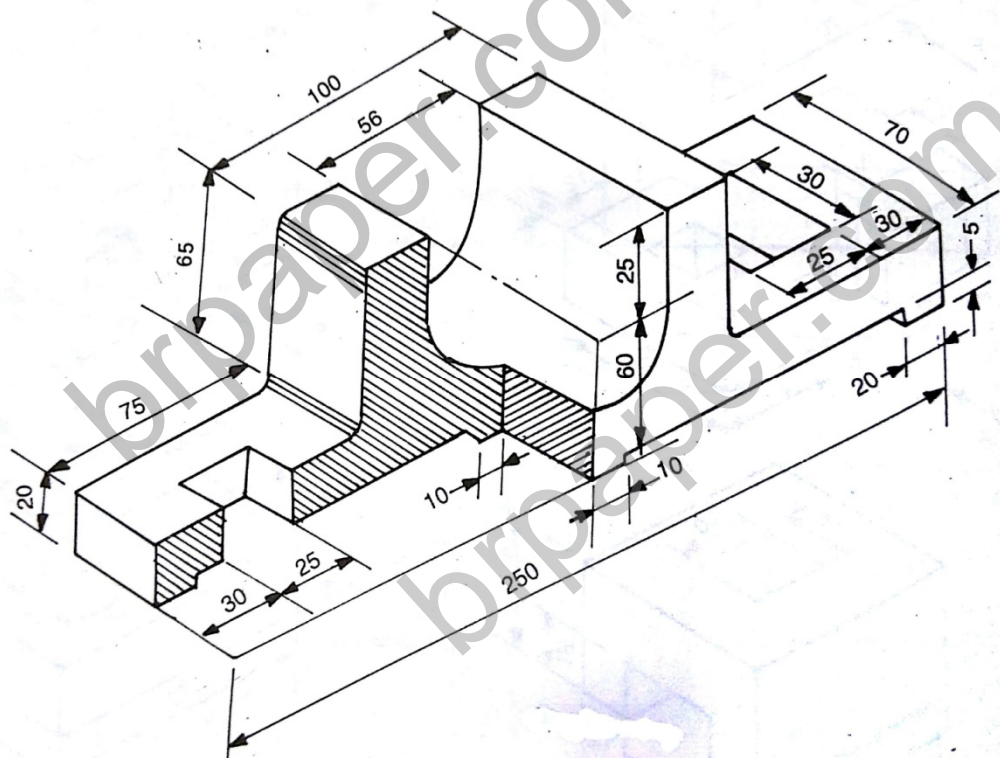


Figure 2