

ENGINEERING DRAWING-I
1st Exam/Electrical/Mechanical/2655/Nov'15

Duration: 3 hrs

M.M. 100

Section – A

Note: Attempt all questions

10

Q1. (A) Fill in the blanks:

- I. The representation of any matter by some sign on the drawing is known as _____.
- II. Length of scale = _____ x Max length to be measured.
- III. Full scale is written as _____.
- IV. The section lines are drawn at _____ to the horizontal line.
- V. If a point is above H.P. and behind V.P. then it is situated in _____ quadrant.
- VI. A hidden object is shown by _____ lines.
- VII. Symbol of Third angle projection is _____.
- VIII. An Isometric view shows _____ Surfaces of object.
- IX. Outline is drawn by using _____ Grade pencil.
- X. Angle of Inclined lettering is _____ degrees.

(B) True or False

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- I. Arms of wheels and pulleys are sectioned longitudinally.
- II. A scale working on three units is called Diagonal scale.
- III. In first angle projection Top view is drawn below Front view.
- IV. A point is in the 2nd quadrant, its Top view will be above XY.
- V. True length = 0.82 x Isometric length.

Section –B

Note: Attempt any three questions

15x3=45

Q2. Draw the sign conventions of following

- (a) Centre line
- (b) Hidden line
- (c) Cutting plane
- (d) Long break line
- (e) Continuous thick line
- (f) Lead
- (g) Glass
- (h) Wood
- (i) Earth
- (j) Oil

Q3. A right circular cylinder of diameter 40 mm and height 60 mm is centrally placed vertically on 50 mm square block of thickness 15 mm. Draw front view cylinder and block. Draw isometric projection of the cylinder placed vertically on a block.

Q4. Print free hand 14 mm height.

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Q5. A line of 22 cm long on a map represents a distance of 440 meters. Find R.F. of the scale of the map. Draw a diagonal scale for the plan showing upto a single meter and long enough to measure a distance of 400 meters. Measure and mark a distance of (a) 185 meters (b) 374 meters (c) 229 meters.

Q6. A line AB 25 mm long is lying in first quadrant and parallel to both planes. The line is 15 mm above HP and 10 mm in front of VP. Draw the projections of the line AB.

Contd...

Section – C

Note: Attempt any two questions:

20x2=40

Q7. Draw Top View, Front View and Side View of the Object shown in **Figure 1** attached.

Q8. Attached **Figure 2** shows pictorial view of an object. Draw elevation, side view and Top view and Identify surfaces A, B, C, D, E, F, G, H, J, K, L, M and N in the view.

Q9. Draw full sectional front view and side view of attached **Figure 3**.

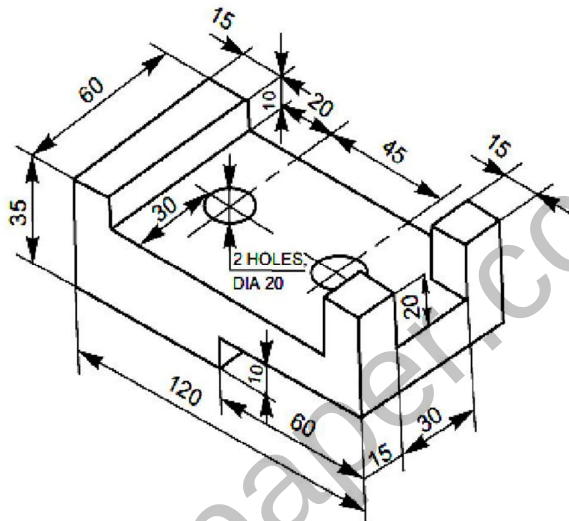


Figure 1

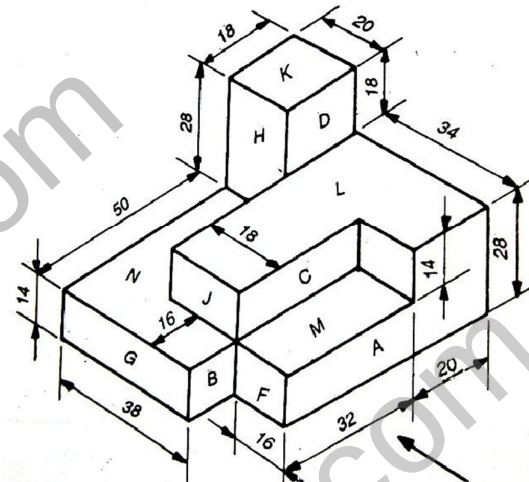


Figure 2

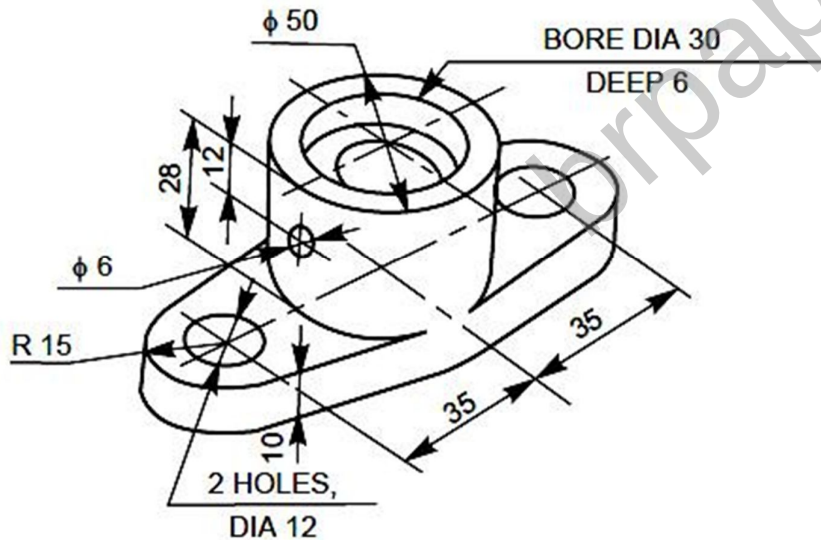


Figure 3