Diploma in Civil Engineering / Diploma in Electrical & Mechanical Engineering

0216

Term-End Examination June, 2010

BET-016: ENGINEERING DRAWING

Time: 2 hours Maximum Marks: 70

Note: Part - A is to be attempted on Answer Scripts and

Part - B on Drawing Sheet.

PART - A

Question No. 1 is compulsory. Attempt any five questions from the remaining seven questions:

- Fill in the blanks with appropriate words, selected 10
 from the list given below:
 - (a) The Ratio of object length on drawing to the Actual length of object is called
 - (b) When measurements are required in 3-units scale is used.
 - (c) When the section plane is inclined to the Axis of right circular cone and parallel to one of its generators, the section is

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(d)	Value of Eccentricity in case of parabola is always
(e)	What dimensions of an object are given by plan or Top-View ? ()
(f)	When a point is in front of (V.P.) its Top- View is Reference line.
(g)	When a line is inclined to V.P. and parallel to H.P. It has no
(h)	In case of oblique-plane, surface of plane is to both the reference planes.
(i)	A cube consists of equal faces.
(j)	When a right circular cone is cut by a section plane parallel to the Base, the true shape of section is
(iii) A	of words: (i) Below (ii) Horizontal trace Above (iv) Circle (v) Hyperbola (vi) Vertical
	e (vii) Equal to one (viii) Perpendicular Length and Width (x) R.F. (xi) Diagonal
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(xii) Parabola (xiii) Inclined (xiv) Six (xv) Ten

- Draw an Arc of 70 mm Radius of any length and then bisect it.
- Sketch a cylinder and any type of pyramid with its name of parts.
- **4.** Differentiate between Aligned and unidirectional methods of dimensioning.
- 5. Draw the conventional symbols for 1st angle and63rd angle projections.
- 6. A 3.2 cm long line represents a length of 4-metres.
 6 Extend this line to measure length up to 25-metres. Calculate the length of scale.
- 7. As per given Fig. No. 1. Find out the position of relative Trace?

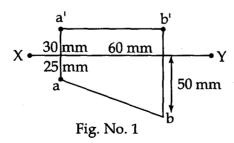
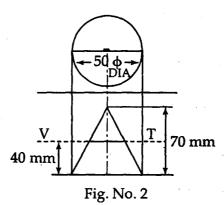


Fig. No. 2, shows the Top-View and Front-View of a cone. It is cut by a section. Plane V.T. Show its sectional-plan or Top-View.



Attempt any two questions. Each question carries equal marks:

- 9. Construct a diagonal scale of R.F. = $\frac{3}{200}$ 15 showing metres, decimetres and centimetres and to measure upto 8-metres.
- 10. A line 'AB' 90 mm long, is inclined at 30° to H.P. Its end 'A' is 12 mm below the H.P. and 20 mm behind V.P. Its Front view measures 65 mm. Draw its projections and also determine its relative Traces.
- Axis 70 mm long rests in H.P. with its base. Its one base edges is parallel to V.P. It is cut by a cutting plane which is inclined at 60° to H.P. and passes through a point on Axis 25 mm above its base. Draw its Front View and sectional Top-View.

- 12. Draw the following views of the block as shown in Figure No. 3 (Using 3rd Angle Projection):
 - (a) Top-View (plan)
 - (b) Front-View (elevation)
 - (c) Side-view

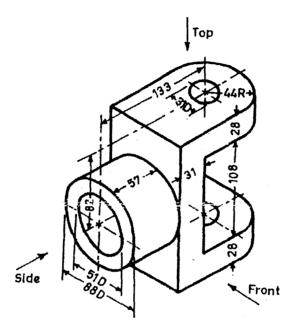


Fig. No. 3

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