

**Diploma in Civil Engineering / Diploma
in Electrical & Mechanical Engineering**

01949

Term-End Examination

December, 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 :*

1. Fill in the blanks with appropriate words, selected from the list given below : - 10
- (i) For drawing of small instruments and watches etc _____ scale is used
 - (ii) The scale of chord is used to set out or measure _____
 - (iii) When the section plane is inclined to the Axis of a right circular cone and cuts all its generators on one side of the Apex, the section is a _____
 - (iv) Value of Eccentricity in case of Hyperbola is always _____
 - (v) The line Joining the Top View and Front View of a point is called _____

- (vi) What dimensions of an object are given by FRONT-VIEW _____
- (vii) When a line is _____ to a reference plane its projection on that reference plane will show its true length
- (viii) Surface of plane is _____ to H.P and perpendicular to V.P, its plane will be smaller
- (ix) Developed length of a regular pentagonal-prism, having 35 mm base edge is _____
- (x) When measurements are required in 2 units _____ scale is used.

LIST OF WORDS

- (i) PERPENDICULAR
- (ii) LINE
- (iii) WIDTH AND HEIGHT
- (iv) ANGLES
- (v) PLAIN
- (vi) LESS THAN ONE
- (vii) REDUCING
- (viii) ELLIPSE
- (ix) PROJECTOR
- (x) GREATER THAN ONE
- (xi) LENGTH AND HEIGHT
- (xii) INCLINED
- (xiii) 180 mm
- (xiv) 175 mm

2. Trisect a given right angle without using protractor. 6
3. Differentiate between "PRISM" and "CONE" by using simple sketches. 6
4. Explain by sketch the different terms and notations of dimensioning. 6
5. What are the various positions of a straight line with respect to Reference planes? 6
6. Find out the true length of line within given figure No . 1 6

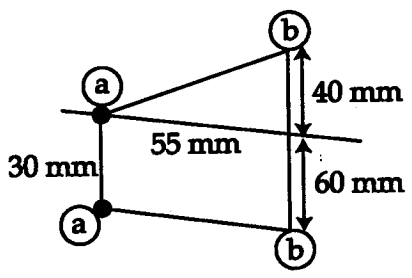


Fig. No. 1

7. For the Development of lateral surface of cone, How can we calculate the subtended Angle by formula? 6
8. Define in short " CONIC - SECTION". Write down the name of different sections. 6

PART - B

Attempt any two questions. Each question carries equal marks :

9. Construct an ellipse by concentric method when both major and minor axes are given 150 mm and 100 mm long respectively. 15
10. A Hexagonal (Regular) of side 40mm has one side on the ground. Its surface is inclined at 60° to H.P and perpendicular to V.P. Draw its projections and also show its traces. 15
11. Draw the projections of a cone, base 55 mm diameter and Axis 80 mm long resting on HP with a point of its circumference. Its Axis makes on Angle 30° with the H.P. 15
12. Figure No. 2 shows the orthographic VIEWS of a Machine bracket. 15

Draw an oblique view

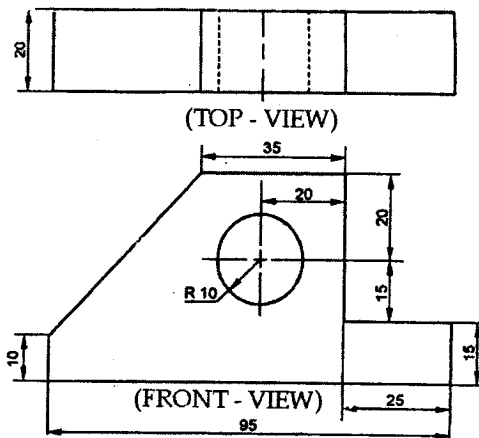


Fig. No. 2