No. of Printed Pages : 3

BET-016

DIPLOMA IN CIVIL ENGINEERING (DCLE(G)) / DIPLOMA IN ELECTRICAL AND MECHANICAL ENGINEERING (DEME) / DCLEVI / DMEVI / DELVI / DECVI / DCSVI / ACCLEVI / ACMEVI / ACELVI / ACECVI / ACCSVI

Term-End Examination

December, 2015

BET-016 : ENGINEERING DRAWING

Time : 2 hours   *Maximum Marks : 70*

Note : *Part A is to be attempted on the Answer Sheet. Part B is to be attempted on the Drawing Sheet.*

PART A

*Attempt any **eight** questions of the following :*

1. Write various types of scales with their applications. 5

2. Draw a parabola and show its different parameters. What is the eccentricity of a parabola ? 5

3. An object is placed in 4th quadrant. What is the position with reference to H.P. and V.P. ? 5

4. Draw the object which has all the three views of same shape. 5

5. In how many ways can we show the diameter of a circle ? Show any two by neat sketches. 5

6. Draw the following lines : 5

    (a)   Short break line

    (b)   Centre line

7. What is the difference between axis of a cone and apex of a cone ? Draw their sketches. 5

8. How should a cone be sectioned so as to have a parabola in true shape ? Explain with the help of a neat sketch. 5

9. A line makes an angle of 60° with H.P. and 30° with V.P. Draw its projections. 5

10. Fill in the blanks. *5×1=5*

    (a)   Actual length of scale RFX is _____ .

    (b)   A regular heptagon has _____ sides.

    (c)   When a circle rolls on a straight line without slipping, locus of a point on its circumference is known as _____ .

    (d)   All dimensions in an isometric projection are reduced by _____ .

    (e)   A straight line is defined as the _____ distance between two points.

PART B

*Attempt any **two** questions of the following :*

11. A cone of 50 mm diameter is lying on H.P. as one of its generators is with axis remaining parallel to V.P. Height of the cone is 70 mm. Draw its projections.   *15*

12. Draw the development of a Hexagonal Pyramid of base edge 30 mm and height 75 mm.   *15*

13. Draw an ellipse by concentric circles method with major axis 90 mm and minor axis 50 mm.   *15*

14. Figure 1 given below shows the pictorial view of an object. Draw the following views :   *15*

    (a)   Front view (direction X)
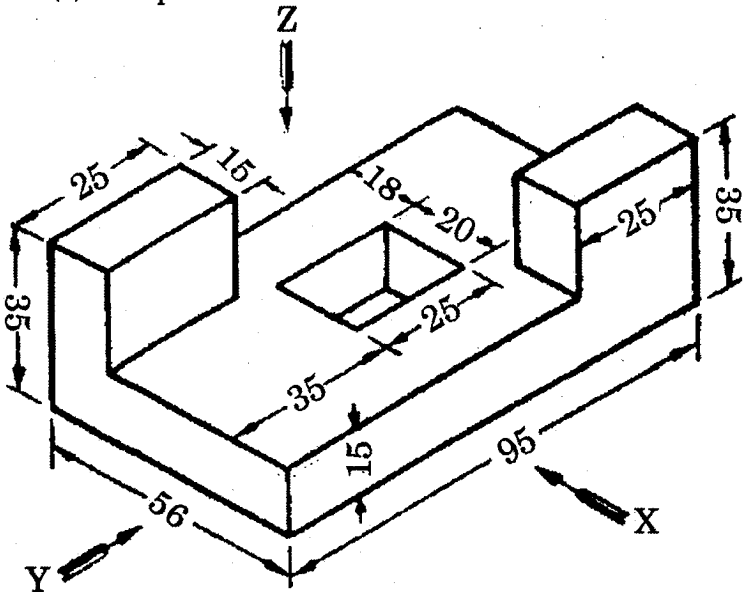
    (b)   Left side view

    (c)   Top view

Figure 1