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

00371

June, 2015

BET-016 : ENGINEERING DRAWING

Time : 2 hours *Maximum Marks : 70*

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

PART A

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

1. What is the difference between plain scale and diagonal scale ? 5

2. Draw ellipse on some suitable scale and show its different parameters. 5

3. When the object is placed in 1st quadrant, what is its position with reference to HP and VP ? 5

4. Name the five types of solids and sketch any two of them. *5*

5. Draw the development of a cylinder and write the steps of development. *5*

6. What is the difference between Isometric view and Orthographic view ? *5*

7. Draw free hand cutting plane line and long break line. *5*

8. What is Dimensioning ? Explain the elements used in dimensioning process with a neat sketch. *5*

9. Explain eccentricity. What is its value for ellipse ? *5*

10. Write the trimmed size of Drawing Sheet of A2 and A4 in mm. *5*

11. Choose the correct answer for the following amongst those given below : *5×1=5*

    (a) When a point is placed above HP and behind VP, it lies in (1^{st} quadrant, 2^{nd} quadrant, 4^{th} quadrant).

    (b) Maximum views of an object in general are (3, 4, 6).

    (c) Front view of an object represents (height and width, length and width, none of the two).

    (d) Tetrahedron is a solid bounded by (3, 4, 5) triangles.

    (e) When a point lies both in HP and VP, its front view is placed (above XY, below XY, on XY).

PART B

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

12. Draw a plain scale to show metres and decimetres when 1 metre is represented by 2.5 cm and the scale is long enough to read upto 6 metres. Find RF and indicate on scale 3 metres and 5 decimetres. *15*

13. A square pyramid of base edge 30 mm and height 70 mm is lying on HP on one of its triangular faces with axis remaining parallel to VP. Draw the projections of the solid. *15*

14. A line AB 70 mm long has its end A 10 mm above HP and 15 mm in front of VP. The line makes an angle of 30° with HP and 45° with VP. Draw the projections and locate HT and VT. *15*

15. Figure 1 below shows isometric view of an object. Looking from "X", draw the following : *15*

(a) Front view

(b) Right side view

(c) Top view

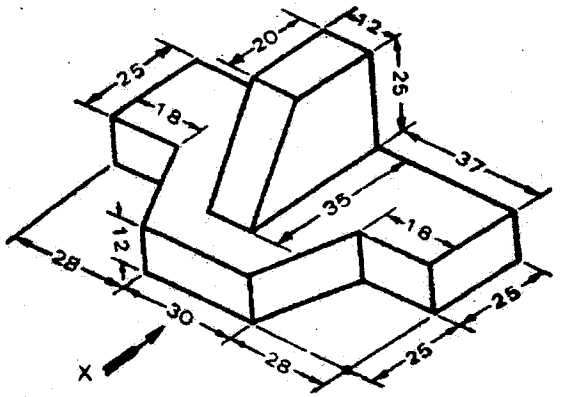

Figure 1