R13

SET-1

I B. Tech II Semester Supplementary Examinations, Nov/Dec - 2017
ENGINEERING DRAWING
(Com. to CSE, PCE, IT,Chem E, Aero E, Auto E, Min E, Pet E & Metal E)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is Compulsory
3. Answer any **THREE** Questions from **Part-B**
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PART –A

1. a) Divide a line of 90mm long into 13 equal parts. (3M)

    b) Represent first angle projection. (4M)

    c) Draw the projections of the Point B lies in the VP and 30mm away from the HP. (4M)

    d) Draw the projections of a 65mm long straight line, in the following position : (3M)
    Perpendicular to the HP in the VP and its one end in the HP.

    e) Draw the projections of a cone of base diameter 25mm and 50mm long resting on (4M)
    VP on its apex with axis perpendicular to and 30mm above the HP.

    f) Draw the 3-Orthographic views of a rectangular box 60×40×20 with its faces (4M)
    mutually parallel to planes of projecting.

PART -B

2. Two points A and B are 100mm apart. A point C is 75mm from A and 60mm (16M)
    from B. Draw an ellipse passing through A, B and C.

3. a) A point at 25 mm above the reference line x y is the front view of two points A (8M)
    and B. The top view of A is 40mm behind VP and the top view of B is 50mm in
    front of VP. Draw the projections of the points and state their positions relative to
    the planes of projection and the quadrants in which they lie.

    b) A line CD 30 mm long is perpendicular to VP and parallel to H.P. Its end C is (8M)
    15mm in front of VP and the line is 10mm above HP. Draw the projections of the
    line.

4. A line AB, 60mm long, has its end A in both the HP and the VP. It is inclined at (16M)
    45^0 to the HP and at 60^0 to the VP. Draw its projections.

5. A square ABCD of 50mm side has its corner A in the HP, its diagonal AC (16M)
    inclined at 30^0 to the H.P. and the diagonal BD inclined at 45^0 to the VP and
    parallel to the HP. Draw its projections.

6.　A cone of base diameter 40 mm and axis 60 mm long rests with one of the points　(16M)
on the circumference of its base on HP. Its axis is inclined at 30^0 to HP and 45^0 to
VP. Draw its projections.

7.　Draw the isometric view of the ribbed angle plate shown in figure-1. All　(16M)
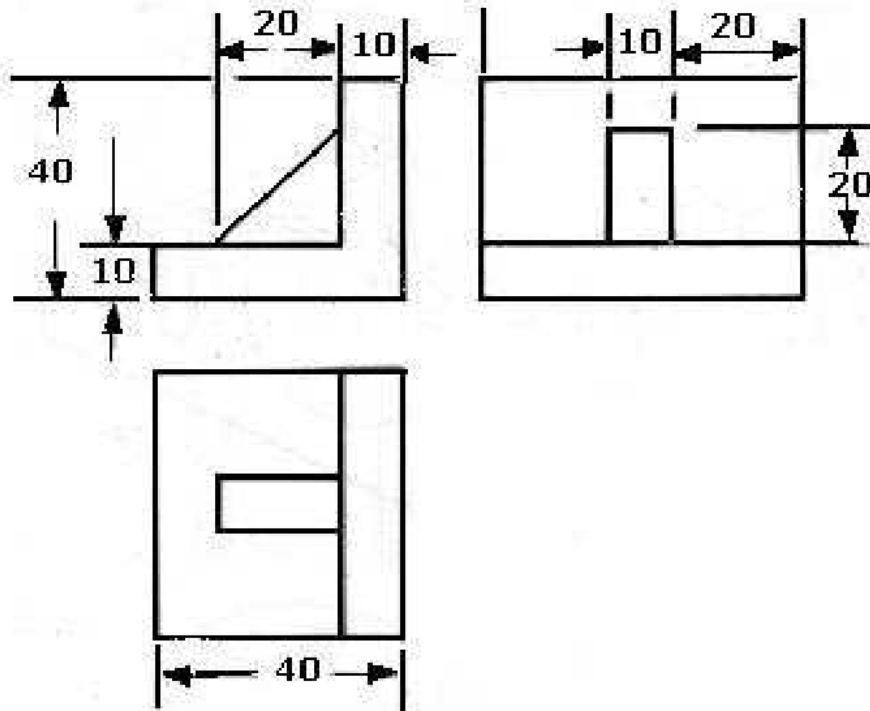dimensions are in mm.

Figure-1