R16

SET - 1

I B. Tech I Semester Supplementary Examinations, April/May - 2017
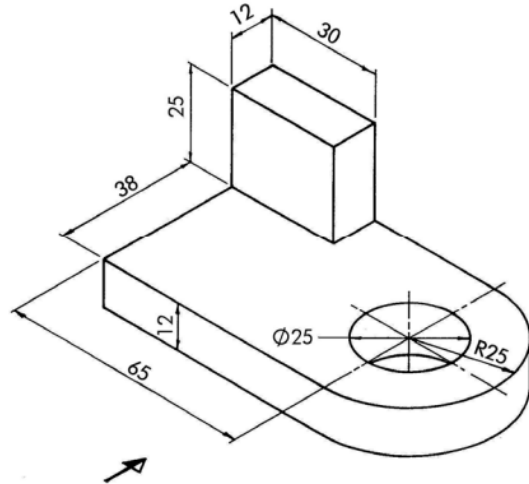**ENGINEERING DRAWING**
(Com. to ECE, EIE, E.Com.E)

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 **FOUR** Questions from **Part-B**
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PART –A

1. a) Draw hexagon with a side of 40 mm. (4M)
   b) Draw three views of the following component in first angle projection. Take all dimensions are in mm. (10M)

PART –B

2. a) A cricket ball thrown from the ground level reaches the wicketkeeper's gloves. Maximum height reached by the ball is 5 m. The ball travels a horizontal distance of 11 m from the point of projection. Trace the path of the ball. (8M)
   b) Draw an octagon given the length of side 25mm. (6M)

3. a) Construct a diagonal scale 1/50, showing metres, decimetres and centimetres, to measure upto 5 metres. Mark a length 4. 75 m on it. (6M)
   b) A line CD 75 mm long is parallel to VP. And perpendicular to HP. End C is 35 mm above HP. And 20 mm in front of VP. End D is above HP. Draw the projections of the line CD and find its traces. (8M)

4. A straight line AB of 75 mm long, has the end A on V.P and the end B on H.P. The line is inclined at 30^0 to V.P and its front view makes an angle of 45^0 with xy. Draw the projections of the line and add the left side view and locate the traces. (14M)

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5.   A rectangular lamina of size 50 mm × 40 mm has a coaxial circular hole of 30   (14M)
      mm diameter. It is resting on HP with a shorter edge perpendicular to VP. The
      surface of the lamina is inclined at 35^0 to HP. Draw the top, front and left side
      views.

6. a) A hexagonal prism with side of base 25 mm and 50 mm long is resting on a   (8M)
        comer of its base on HP. Draw the projections of the prism when its axis is
        making 30° with HP and parallel to VP.
    b) Draw the projections of a right circular cone of base 40 mm diameter and height   (6M)
        60 mm when resting with its base on HP.

7.   Using First Angle Projection, Draw the Orthographic Views of the object shown   (14M)
      in below Figure.