Bachelor of Power Engg.,1ˢᵗYr. 1ˢᵗ Sem. Supplementary Examination (OLD)- 2017

Subject: EngineeringDrawing-I (OLD)   Time: Four Hours   Full Marks: 100

Answer any **five (5)**questions from the followings.   5 x 20 = 100 Marks

1. (a) Draw the following lines of length 5 cm.
    (i)   Centre line
    (ii)   Construction line
    (iii)   Hidden line
    (iv)   Hatch line for metallic section
    (v)   Object line

    (b) Draw the following angles with the help of your set-square only.

    15°, 45°, 75°, 120°, 135°10+10 = 20 Marks

2. (a) Write in single stroke vertical and normal style, the following letters using 30 mm height.

    A to Z and numeric 0, 1 to 9

    (b) Draw a regular pentagon of side 20mm.

    (c) Draw a regular hexagon of side 20mm.10+5+5 = 20 Marks

3. (a) Draw an ellipse whose major axis AB and minor axis CD are 100 cm and 70 cm long respectively.

    (b) Draw a parabola whose focus at 50 mm away from the directrix.10+10 = 20 Marks

4. (a) A cone of base 25 mm radius rests on a horizontal plane such that its axis is perpendicular to HP. Draw its top view and front view.

    (b) Draw a diagonal scale of R.F. 1:2.5 showing centimeters and millimeters and long enough to measure up to 20 centimeters. Show the distance 13.4 cm on this scale.   10+10 = 20 Marks

5. A cylinder diameter of base 50 mm and height 70 mm is resting on the H.P. such that the axis of the cylinder is inclined to H.P. by 60° and the axis is parallel to the V.P. Draw its projections.

    20 Marks

6. A cube of 50 mm long edges is so placed on HP on one corner that a body diagonal is parallel to HP and perpendicular to VP Draw it's projections.20 Marks