

**ADITYA ENGINEERING COLLEGE (A)**

B. Tech I Semester End Examinations (Regular), Nov / Dec – 2017

**ENGINEERING DRAWING**

(Common to ECE, CSE & IT)

Time: 3 hours

Max. Marks: 60

Answer ONE question from each unit

All Questions Carry Equal Marks

All parts of the questions must be answered at one place only

**UNIT – I**

- 1 a Construct a regular pentagon of 40 mm side by any two methods. CO1 [4M]  
 b Draw a straight line AB of any length. Mark a point F, 65 mm from AB. Trace the paths of a point P moving in such a way, that the ratio of its distance from the point F, to its distance from AB is 2:3. Name the curve. Draw normal and tangent to the curve at a point on it, 50 mm from F. CO1 [8M]

OR

- 2 a Draw a rectangle having its sides 125 mm and 75 mm long. Inscribe a parabola in it. CO1 [6M]  
 b Construct a diagonal scale of Representative Fraction is 1/4000 to show meters and long enough to measure up to 500 meters. Show on a distance of 374 meters and 153 meters. CO1 [6M]

**UNIT – II**

- 3 a Two points A and B are in the Horizontal Plane. The point A is 30 mm in front of Vertical Plane, while B is behind the Vertical Plane. The Distance between their projectors is 75 mm and the line joining their top views makes an angle 45° with xy. Find the distance of the point B from CO2 [4M]

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**SJ Ball**



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