

**Code: 13ME1001****ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI  
(AUTONOMOUS)****I B. Tech I Semester Regular Examinations, February-2014****ENGINEERING DRAWING****Mechanical Branch****Time: 3 hours****Max Marks: 70****PART-A****Answer all questions****[10X1=10M]**

1. a) What are the systems of placing dimensions on a drawing?  
b) When measurements are required in three units which type of scale is used?  
c) Define representation fraction.  
d) List out the different types of scales.  
e) Define eccentricity.  
f) What are the methods to construct an ellipse, given the major and minor axes.  
g) Define Ellipse.  
h) Explain differences between first angle projection and third angle projection method with graphical symbol.  
i) Define orthographic projection.  
j) What is the difference between orthographic projection and isometric projection?

**PART- B****Answer one question from each unit****[5X12=60M]****Unit - I**

2. The area of a field is 50,000 Sqm. The length and breadth of the field on the map is 10 cm and 80 mm respectively. Construct a diagonal scale which can read up to one meter. Make the length of 235 meter on the scale. What is the R.F. of the scale.  
(OR)
3. A point moves such that the difference of its distances from two fixed points is constant and is equal to 100 mm. The fixed points are located 200 mm apart. Draw the locus of the moving point. Name the curve. Make on it transverse axis, foci and asymptotes.

**Unit - II**

4. The front view of a 95 mm long line measures 65 mm. The line is parallel to the H.P. and one of its ends is in the V.P. and 25 mm above the H.P. Draw the projections of the line and determine its inclination with the V.P.  
(OR)
5. A line RS 35 mm long is in H.P. and inclined at angle of  $45^0$  to V.P. The end R is 10 mm in front of V.P. Draw the projections.

**Unit - III**

6. A thin triangular lamina having sides 40 mm, 60 mm and 70 mm is held in such a way that the smallest of its sides is parallel to H.P. and perpendicular to V.P. The plane of the lamina is inclined at  $60^0$  to H.P. Draw front view and top view of lamina.

**(OR)**

- ## Unit - IV

- ## Unit - V

- [illegible]

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