**Midterm Exam Session 2014**

**ENGINEERING DRAWING AND GRAPHICS**

***Industrial Engineering Department***

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Registration No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Answer the Following Questions (NO CHOICE)** **Total Marks=30**

**Time Allowed=1.5 hours**

**Q#1.** Explain the general rules for Dimensioning. **(5)**

**Q#2**.What is meant by a Trace of a line. Explain the method of determining the Traces of a line. **(5)**

**Q#3.** Two pegs fixed on a wall are 4.5m apart. The distance between the pegs measured parallel to the floor is 3.6m. if one peg is 1.5 meters above the floor, find the height of the second peg and the inclination of the line joining the two pegs, with the floor. **(5)**

**Q#4.** A regular pentagon of 25mm side has one side on the ground. Its plane is inclined at 45° to the H.P and perpendicular to V.P. Draw its projections and show its traces. **(5)**

**Q#5.** A point 30mm above xy line is the top view of two points P and Q. The front view of P is 45mm above the H.P while that of the point Q is 35mm below the H.P. Draw the projections of the points and state their position with reference to the principal planes and the quadrant in which they lie. **(5)**

**Q#6.** (a) Write any two difference between first-angle and third-angle projection **(2)**

(b) A line is AB is 10cm long, is in H.P, and makes an angel of 45° with the V.P its end P is 3cm in front of V.P. Draw its projections. **(3)**

*Good Luck ☺*