

Roll No. ....

Total No. of Pages : 2

**BT-1/D11**

**7515**

**Engineering Graphics and Drawing**

**Paper : ME-105 E (2010-11)**

Time : Three Hours]

[Maximum Marks : 100

Note :- There are FOUR Units. Attempt at least ONE question from each Unit. Attempt only FIVE questions in total.

**UNIT-I**

1. Construct a Vernier scale of R.F. =  $1/25$  to read meter, decimeter and centimeter. It should be long enough to measure upto 4 meters. Show on it length 2.47m, 1.62m and 0.91m. 20
2. A point, A is 25 mm above HP and is in first quadrant. Its shortest distance from the XY line is 50 mm. Draw its plan and elevation. 20

**UNIT-II**

3. A line AB 70 mm long is inclined at  $45^\circ$  to HP and  $30^\circ$  to VP. Its midpoint P is 30 mm below the HP and 25 mm behind the VP. Draw the projections of the line. <http://www.kuonline.in> 20
4. A regular hexagonal plate ABCDEF, 25 mm side, is resting on HP on one of the sides/edges with the surface of the plate making  $45^\circ$  with HP and perpendicular to VP. Draw the two projection of the plate and find its traces. 20

**UNIT-III**

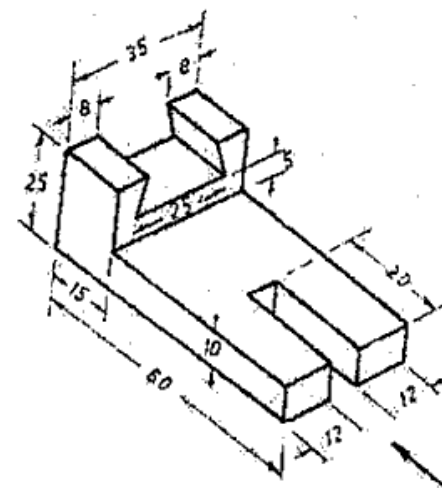
5. A square prism, side of base 35 mm and height 60 mm, is resting on its base in VP and axis perpendicular to VP and 30 mm above

the HP. One of the edges of the base is incline at  $30^\circ$  to the HP. Draw the projections of the square prism. 20

6. Develop a right cylinder of 44 mm diameter, 60 mm height and having a circular hole of 32 mm diameter drilled centrally through it such that the axes of the hole and cylinder are mutually at right angles. 20

**UNIT-IV**

7. Draw the three views of a hexagonal nut for a 24 mm bolt. 20
8. Draw the three orthographic views of the Dovetail stop. 20



DOVETAIL STOP