

Roll No.

Total Pages : 2

BT-1/D-18**31020****ENGINEERING DRAWING AND GRAPHICS**

(Odd)

Paper : ME-105(N)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt five questions in all, selecting at least one question from each unit.

UNIT-I

1. The Shortest distance of a point E from reference line is 50 mm. Draw its projections if the point is placed at a height of 26 mm above H.P. Mention all assumptions regarding quadrant and scale used clearly alongside the solution. 15
2. A Line PQ 108 mm long has its plan and elevation lengths 60 mm and 90 mm respectively. One end of the line P is in HP while the other end is in VP. Draw its projections. 15

UNIT-II

3. A Pentagonal plate of side 35 mm is placed with one side on HP and the surface inclined at 50° to HP perpendicular to VP. Draw its projections. 15
4. A tetrahedron of side 40 mm rests with its base on HP. Draw its projections when one of its edges is perpendicular to VP. 15

31020/1,400/KD/2180

[P.T.O.
26/12

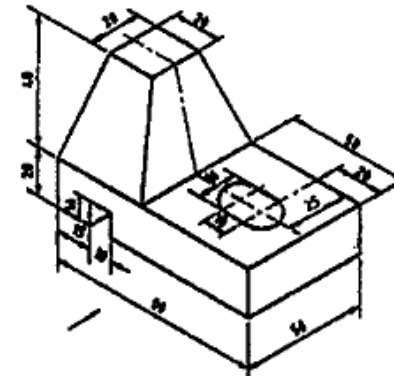
http://www.kuonline.in

UNIT-III

5. A square pyramid of base side 30 mm and axis length 60 mm is resting on HP on its base with one side of base inclined at 30° to VP. It is cut by a plane inclined at 45° to HP and perpendicular to VP and passes through the axis at a distance 25 mm from the apex. Draw its front view, Sectional top view and true shape of the section. 15
6. A hexagonal pyramid of side 30 mm and altitude 60 mm resting on HP on its base with two of the base sides perpendicular to VP. The pyramid is cut by a plane inclined at 30° to HP and perpendicular to VP. The pyramid is cut by a plane inclined at 30° to HP and perpendicular to VP and is bisecting the axis. Draw the development of the remaining portion of the pyramid. 15

UNIT-IV

7. Draw the front view, top view and side view of the following object : 15



8. Draw the three orthographic views of Hexagonal Nut. 15

31020/1,400/KD/2180

2

http://www.kuonline.in