# I B. Tech II Semester Supplementary Examinations, December - 2020 ENGINEERING DRAWING 

(Com. to All Branches)

Max. Marks: 75
Answer any FIVE Questions
All Questions carry Equal Marks

1. a) Two fixed points $A$ and $B$ are 100 mm apart. Trace the complete path of a point $P$ moving in the same plane as that of A and B in such a way that, the sum of its distances from $A$ and $B$ is always the same and equal to 125 mm .
b) The actual length of 500 m is represented by a line of 15 cm on a drawing. Construct a vernier scale to read upto 600 m . Mark on the scale a length of 549 m .
2. a) A point A is 20 mm above HP and 30 mm in front of VP. Another point $B$ is 35 mm below HP and 45 mm behind VP. Draw the projections of these points taking the distance between the end projectors as 80 mm . Also find the length of the line joining their plans and elevations.
b) The front view of line inclined at $30^{\circ}$ to VP is 65 mm long. Draw the projections of a line, when it is parallel to and 40 mm above HP. and one end being 20 mm in front of VP.
3. Line CD is in the second quadrant and has $55^{\circ}$ inclinations with HP, while the front view has $30^{\circ}$ inclinations with xy line and 60 mm length. If the end $C$ is 12 mm above HP and the end D is 60 mm behind VP, draw its projections.
4. a) Draw the projections of a regular hexagonal lamina of 30 mm side resting on one of its base edges on AP with its plane perpendicular to HP and inclined at $45^{\circ}$ to VP.
b) A regular pentagon of 30 mm side has one side on the ground and its plane is inclined at $45^{\circ}$ to HP and perpendicular to VP. Draw the projections.
5. a) Draw the projections of a pentagonal pyramid, base 30 mm edge and axis 50 mm long, having its base on the HP. and an edge of the base parallel to the VP.
b) A square pyramid, base 40 mm side and axis 65 mm , long has its base in the V.P. One edge of the base is inclined at $30^{\circ}$ to the H.P. and a corner contained by that edge is on the H.P. Draw its Projections.
6. Draw the projections of a square prism of side of base 30 mm and axis 60 mm long resting on one of its base edges in HP with its axis inclined at $30^{\circ}$ to HP. and the top view of axis is $45^{\circ}$ to VP.
7. Draw the front view, top view and left side view of the given pictorial projection. All dimensions are in mm .

8. Draw the isometric view of the object whose front and top views are given.


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