

First Semester B.E. Degree Examination, December 2017

## COMPUTER AIDED ENGINEERING DRAWIN9

Time: 3 Hours
(COMMON TO ALL BRANCHES)
Max. Marks: 100
Note: I. Answer thtdelfigt questions. 2 Use A4 sheets supplied.
3. Draw to actuars.cale.
4. Missing data, if any, may b assumed suitably.

1. a. A point $G$ is $\mathbf{2 5} \mathbf{~ m m}$ beloW \& is situated in the third 04drant. Its shortest $\mathbf{1 0}$ Marks distance from the intersection; of ),(Y and X 1 Y 1 is $\mathbf{4 5 m m}$. brilk,its projections and find its distance from VP.
b. The top view of a line $\mathbf{7 5 m} \mathbf{~ m o n g}$, measures 50 mrn . fhe end $\mathbf{P}$ is $\mathbf{3 0} \mathbf{~ m m}$ in front 20 Marks of VP and 15 mm above the HP. The,e' e ' Q is 15 ' ma in front of VP and above HP. Draw the projections of the line ind:p4d its true inclinations with HP and VP.

## OA,

1. The top view of a square lamina of side:.: 30 mm is a rectangle of sides $30 \mathrm{~mm} \times 20 \mathrm{~mm}$ with the longer sid .r, rectatiglv- being parallel to both HP and VP. Draw the top and front vim of th squarelaona. What is the inclinatiort.bf the surface of the lanainaavi

2, A Hexagonal prism 25mmati aSe- and 50mm axes:length rests on HP on one 40 Marks of its edges. Draw the projections/0 the prism when the aXii is inclined to HP at $45^{\circ}$ and appears to be inclined to',VP $40^{\circ}$.
3. A pentagonal prism of base sides 20 mm and height of $\mathbf{4 0} \mathbf{~ m m}$ is resting with its

30 Marks base on HP with a base edge,parallel to the VP. The prism is Cm as" shown in the following front vievv.15raW the development of the lateral surface of the prism.


OR
3. An equilateral triangular prism base side 30 mm and length 70 mm is resting on its rectangular face on top of a square slab side 70 mm and 25 mm thick. Draw the isometric projection of the combination.

