

--	--	--	--	--	--	--	--	--	--

First/Second Semester B.E. Degree Examination, December 2018

COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours

(COMMON TO ALL BRANCHES)

Max. Marks: 80

- Note:** 1. Answer three full questions. 2. Use A4 sheets supplied.
 3. Draw to actual scale. 4. Missing data, if any, may be assumed suitably.

- Q.No.1 a.** Draw the projections of the following points on the same XY line, **10 Marks** keeping constant distance between each projector. Name the quadrants in which they lie.
- A – 30 mm above HP and 35 mm in front of VP.
 - B – 35 mm above HP and 40 mm behind VP.
 - C – 40 mm above HP and on VP.
 - D – 35 mm below HP and 30 mm in front of VP.

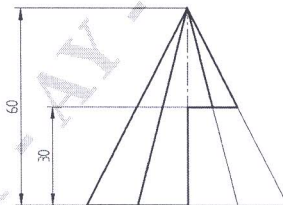
- b.** A line PQ 85 mm long has its end P 10 mm above the HP and 15 mm in front of the VP. The top view and front view of line PQ are 75 mm and 80 mm respectively. Draw its projections. Also determine the true and apparent inclinations of the line. **15 Marks**

OR

- Q.No.1** A 30°-60° set square of 60 mm longest side is so kept such that the longest side is in HP, making an angle of 30° with VP. The set square itself is inclined at 45° to HP. Draw the projections of the set square. **25 Marks**

- Q.No.2** A square pyramid of base sides 30 mm and height 45 mm is suspended by a thread tied to one of the corners of its base. It is then tilted such that the axis makes an angle of 45° with respect to the VP. Considering the apex of the solid to be nearer to the observer, draw the projections of the solid. **30 Marks**

- Q.No.3** A hexagonal pyramid of 30 mm base sides with a side of base parallel to VP. Draw the development of the lateral surfaces of the retained portions of the pyramid cut by two perpendicular planes shown by dark lines in the figure. **25 Marks**



OR

- Q.No.3** A hemisphere diameter 70 mm is placed on the ground on its curved surface. A cone base diameter 70 mm and height 70 mm is placed centrally on it. Draw the isometric projection of the combination. **25 Marks**

* * * * *