

CBCS SCHEME



USN _____

15CED14/24

First/Second Semester B.E. Degree Examination, June/July 2019

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. A point 'P' is 15 mm above HP and 25 mm in front of VP. Another point 'Q' is 25 mm behind VP and 40 mm below HP. Draw the projections when the distance between their projectors parallel to XY line is zero mm. Add the right side view only to point 'Q'. **10 Marks**

b. A line has its end A 15 mm from HP and 10 mm from VP. The end B is 55 mm from HP and the line is inclined at 30° to HP. The distance between the end projectors is 50 mm. Draw the projections of the line. Determine the true length and true inclination with VP. **15 Marks**

OR

Q.No.1 An equilateral triangular lamina of 25 mm side lies with one of its edges on HP such that the surface of the lamina is inclined to HP at 60° . The edge on which it rests is inclined to VP at 60° . Draw the projections. **25 Marks**

Q.No.2 A pentagonal prism 25 mm sides of base and 60 mm axis length rests on HP on one of its edges of the base which is inclined to VP at 30° . Draw the projections of the prism when the axis is inclined to HP at 40° . **30 Marks**

Q.No.3 A square prism of base side 30 mm and axis length 60 mm is resting on HP on one of its base with all the vertical faces being equally inclined to VP. It is cut by an inclined plane 60° to HP and perpendicular to VP and is passing through a point on the axis at a distance 45 mm from the base. Draw the development of the lower portion of the prism. **25 Marks**

OR

Q.No.3 A cone of base diameter 50 mm and height 60 mm is placed centrally on a equilateral triangular prism of side 100 mm and 20 mm thick. Draw the isometric projection of the combination. **25 Marks**
