CBCS SCHEME

USN ☐☐☐☐☐☐☐☐☐☐

18EGDL15/25

First/Second Semester B.E. Degree Examination, December 2019

ENGINEERING GRAPHICS

Time: 3 Hours   **(COMMON TO ALL BRANCHES)**   Max. Marks: 100

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.

1. The top view of a 75 mm long line AB measure 65 mm while the front view is 50 mm. One end A is in the HP and 12 mm in front of VP. Draw the projections of AB and determine its inclinations with the HP and VP.   **25 Marks**

OR

1. A rectangular lamina of 35 mm X 20 mm rests on HP on one of its shorter edges. The lamina is rotated about the edge on which it rests till it appears as a square in the top view. The edge on which the lamina rests is inclined at 30^0 to VP. Draw its projections and find its inclination to HP.   **25 Marks**

2. A Square pyramid of 35 mm sides of base and 60 mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclination with HP. Draw the projections of the pyramid when the axis of the pyramid is inclined to HP at 40^0 and to VP at 30^0.   **45 Marks**

3. A Hexagonal prism of base side 25 mm and height 55 mm is resting on HP on its base, such that one of its base edges is parallel to VP. The prism is cut in this position as shown in the following front view. Draw the development of the lateral surface of the truncated prism.

          30 Marks
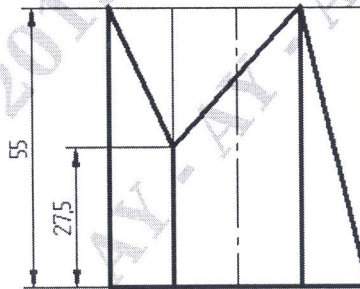
OR

3. A Square prism this side 40 mm height 50 mm is placed centrally on a rectangular slab of sides 100 mm x 60 mm and thickness 20 mm. Draw the isometric projection of the combination.   **30 Marks**