CBCS Scheme

USN | | | | | | | | | |

15CED14/24

First/Second Semester B.E. Degree Examination, December 2016

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. Two points 'P' and 'Q' on HP. The point 'P' is 30 mm behind VP, while 'Q' is 50 mm in front of VP. The line joining their top views makes an angle of 40° with XY line. Find the horizontal distance between their projectors. **10 Marks**

b. A line AB 80 mm long has its end A 20 mm above the HP and 30 mm in front of VP. It is inclined to 30° to HP and 45° to VP. Draw the projections of the line and find apparent lengths and apparent inclinations. **15 Marks**

OR

Q.No.1 A square plate of 40 mm sides rests on HP such that one of the diagonals is inclined at 30° to HP and 45° to VP. Draw its projections. **25 Marks**

Q.No.2 A square pyramid 35 mm sides of base and 60 mm axis length is suspended freely from a corner of its base. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45°. **30 Marks**

Q.No.3 A frustum of a square pyramid has its base 40 mm sides, top 16 mm sides and height 60 mm, its axis is vertical and side of base is parallel to VP. Draw the projections of the frustum and show the development of the lateral surfaces of it. **25 Marks**

OR

Q.No.3 A square prism of side 40 mm and height 70 mm has a full depth co-axial square holes side 20 mm, such that edges of both the squares are parallel. Draw the isometric projection of the combination. **25 Marks**

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