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I/II Semester B.E. Degree Examination, June - July 2009  
COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours

**(COMMON TO ALL BRANCHES)**

Max. Marks: 100

Office Use	Note: 1. Answer three full questions 3. Draw to actual scale	2. Use A4 sheets supplied 4. Missing data, if any, may be assumed suitably	
41	Q 1. a)i.	A point 20 mm below the reference XY line is the top view of three points P, Q & R. P is 20 mm below HP, Q is 35 mm above HP and R is on HP. Draw the projections of the three points and state their positions & quadrants in which they are situated.	(10 Marks)
87	ii.	Draw the projections of a line AB 90 mm long and find its true and apparent inclinations with HP and VP, when its end A is on HP and 20 mm in front of VP. Its midpoint M is 20 mm above the HP and 40 mm in front of the VP.	(20 Marks)
		OR	
145	b)	A hexagonal lamina of sides 25mm rests on one of its corners on HP. The corner opposite to the corner on which it rests is 35mm above HP and the diagonal passing through the corner on which it rests is inclined at 30° to VP. Draw its projections. Find the inclination of the surface with HP.	(30 Marks)
176	Q 2.	A hexagonal pyramid 25 mm sides of base and 50 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 inclinations with HP. Draw the projections of the pyramid when the axis of the pyramid is inclined to HP at 40° and appears to be inclined to VP at 45°.	(40 Marks)
220	Q3. a)	A frustum of a square pyramid has its base 40 mm side, top 16 mm sides and height 60mm, its axis is vertical and a side of its base is parallel to VP. Draw the projections of the frustum and show the development of the lateral surfaces of it.	(30 Marks)
		OR	
292	b)	Two rectangular slabs are placed one above the other co-axially with dimensions (lxbxh) 100mmx60mmx20mm and 100mmx40mmx20mm such that longer edges are parallel to VP. Draw the isometric projection of the combination of solids.	(30 Marks)