Model Question Paper- I

CBCS SCHEME

First/ Second Semester B.E Degree Examination

Computer Aided Engineering Drawing (1BCEDx103)

(COMMON TO ALL BRANCHES)

TIME: 03 Hours **Max. Marks: 100**

Notes:

1. *Answer any FOUR full questions, choosing at least ONE question from each MODULE*
2. *M: Marks, L: Bloom's level, C: Course outcomes.*

		Module - 1	M	L	C
Q. 1	a	A point 30 mm above XY line is the front view of two points A & B. The top view of A is 40 mm behind VP & the top view of B is 45 mm in front of VP. Draw the projections of the points & state the quadrants in which the points are situated.	8	3	1
	b	A line AB measuring 70 mm has its end A 15 mm in front of VP and 20 mm above HP and other end B is 60 mm in front of VP and 50 mm above HP. Draw the projections of the line and find the inclinations of the line with both the reference planes of the projections.	12	3	1
OR					
Q. 2	a	A hexagonal lamina of sides 25 mm rests on one of its corners on HP. The comer opposite to the corner on which it rests is 35 mm above HP and the diagonal passing through the corner on which it rests is inclined at 30° VP. Draw its projections. Find the inclination of the surface with HP.	20	3	1
Module – 2					
Q. 3	a	A pentagonal pyramid 25 mm sides of base and 50 mm axis length rests on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis appears to be inclined to VP at 45^0 with the base of the pyramid nearer to observer.	30	3	1
OR					
Q. 4	a	A square prism 35 mm sides of base and 60 mm axis length rests on HP on one of its corners of the base. Draw the projections of the prism when the axis is inclined to HP at 45º and VP at 30°.	30	3	1
Module – 3					
Q. 5	a	Draw the development of the lateral surface of a funnel consisting of a cylinder and a frustum of a cone. The diameter of the cylinder is 20 mm and the top face diameter of the funnel is 80 mm. The height of the frustum and cylinder are equal to 60 mm and 40 mm respectively.	25	3	2
OR					
Q. 6	a	A square prism of base sides 30 mm and axis length 60 mm is resting on HP with all the vertical faces 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 of 50 mm from the base. Draw the development of the truncated portion of the solid.	25	3	2

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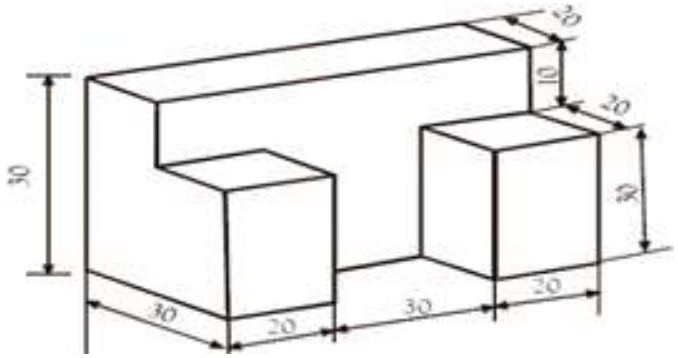
Module – 4					
Q. 7	a	A rectangular pyramid of base 60 mm x 45 mm and height 50 mm is placed centrally on a rectangular slab of base 100 mm x 60 mm and thickness 20 mm. Draw the isometric view of the combination.	25	3	3
OR					
Q. 8	a	Draw all the three orthographic views of the object shown in the Fig. 1  Fig. 1	25	3	3