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First Semester BE Degree Examination May-June-2022 Engineering Visualization-21EVL15

TIME: 03 Hours

Max. Marks: 100

Note:

01. Answer all FOUR full questions

02. Grid sheets may be provided for making preparatory sketches

	02. Grid sheets may be provided for making preparatory sketches	Marks
	Module -1	
Q.01	(a) A point 20 mm below the reference XY line is the top view of three P, Q & R points. P is	08
	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 and quadrants in which they are situated.	
	(b) The top view PQ of a straight line is 70 mm and makes an angle of 60° with XY line.	12
	The end Q is 10 mm in front of VP and 30 mm above HP. The difference between the	
	distances of P & Q above the HP is 45 mm. Draw the projections and determine its true	
	length and true inclinations with HP & VP.	
	OR	4
	(a) An equilateral triangular lamina of 25 mm side lies on one of its sides on HP. The	
	amina makes 45° with HP and one of its medians is indined at 40° to VP. Draw its	20
	projections.	
	Module-2	
Q.02	A square pyramid 35 mm sides of base and 60 mm axis length rests on HP on one of	30
	its edges of the base. Draw the projections of the pyramid when the axis is inclined	
	to HP at 45° and VP at 30°.	
	OR	
Q.02	A pentagonal prism 25 mm sides of base and 50 mm axis length rests on HP on one	30
	of its corners of the base such that the two base edges containing the comer on	
	which it rests make equal inclinations with HP Draw the projections of the prism	
	when the axis of the prism is indined to HP at 40° and appears to be inclined to VP	
1	at 45°.	
	Module-3	
2.03		l
2.03	A square prism base side-40mm, height50mm is placed centrally on a rectangular	25
	slab of sides 100mmx60mm and thickness-20mm. Draw the isometric projection of	
1.	the combination.	¥ 2
1	OR	,
.03	A sphere of diameter 50 mm rosts controlly on the	
	A sphere of diameter 50 mm rests centrally on top of a cube of sides 50 mm. Draw	25
	the isometric projections of the combination of solids.	
	Module-4	N. L.
.04	A square prism of base 40 mm and axis length 65 mm is resting on HP on its base	25
	with all the vertical faces being equally indined to VP. It is cut by an indined plane	45
	60° to HP and perpendicular to VP and is passing through a point on the axis at a	
	distance 15 mm from ton fam. Draw the distance 15 mm from ton fam.	
1 0	distance 15 mm from top face. Draw the development of the lower portion of the prism.	A SAR
	I MITAIL	V



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Solution and Scheme for award of marks

AY: 2021-22

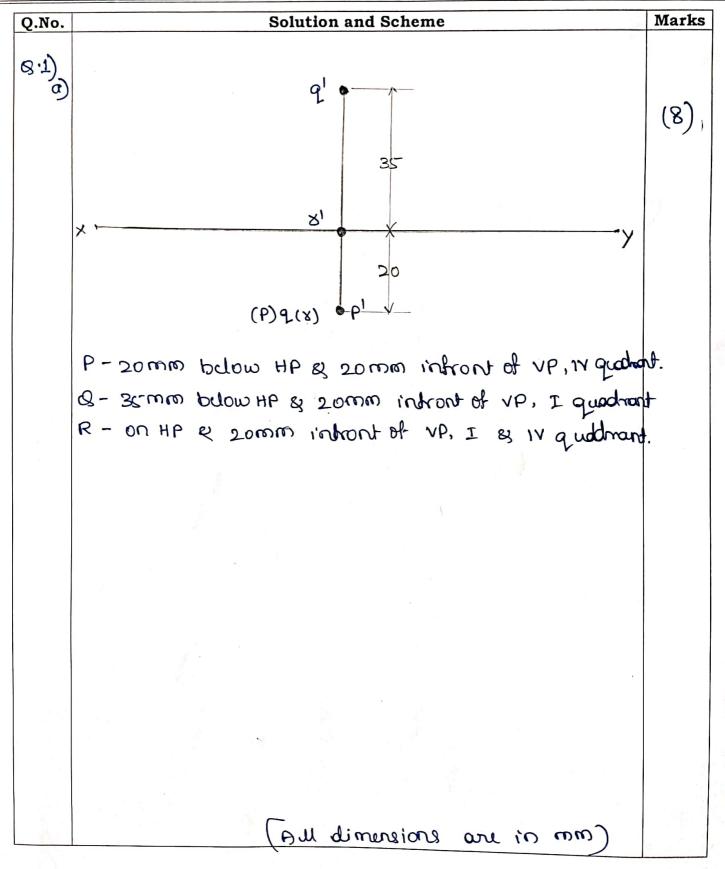
Semester End Exam : I

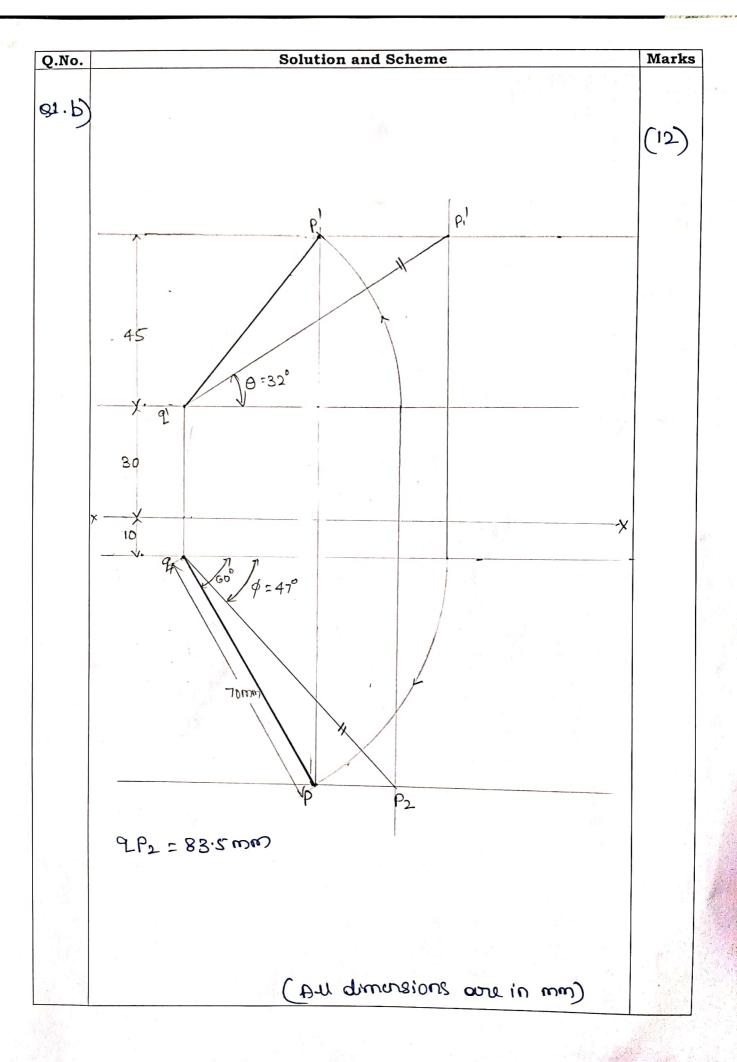
Semester

Department: Mechanical Engineering

Subject with Sub. Code: Engineering Visualization (21EVN15)

Name of Faculty: Dr. Shankar Badiger







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Solution and Scheme for award of marks

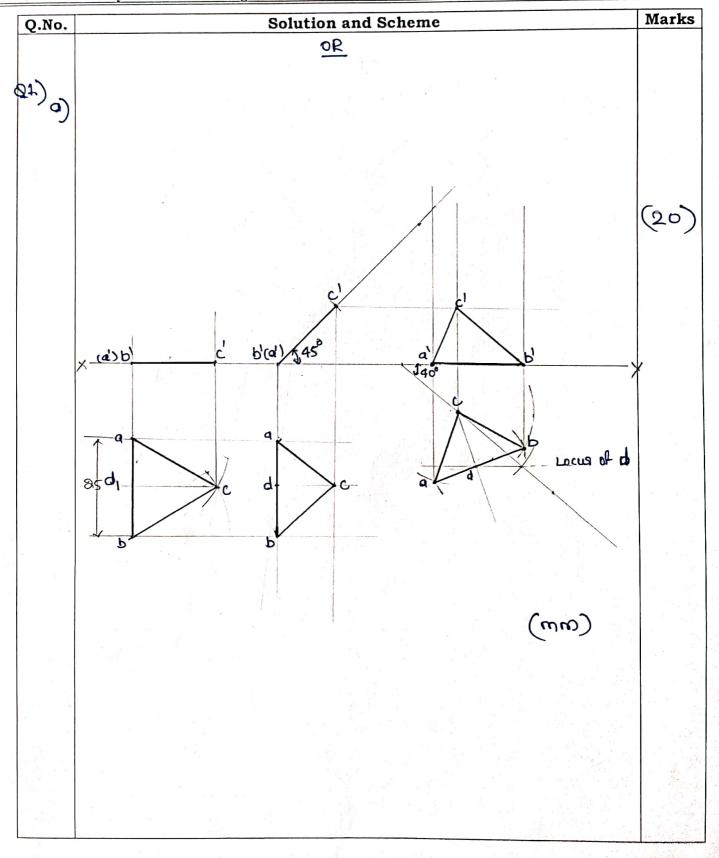
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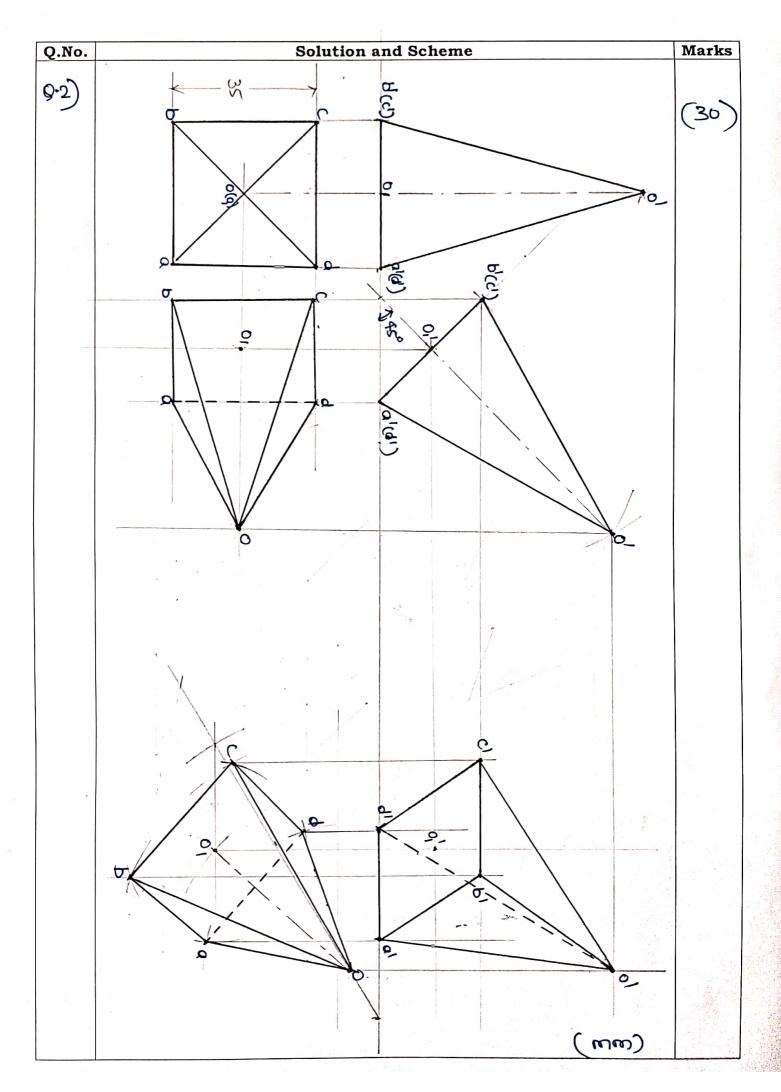
Department: Mechanical Engineering

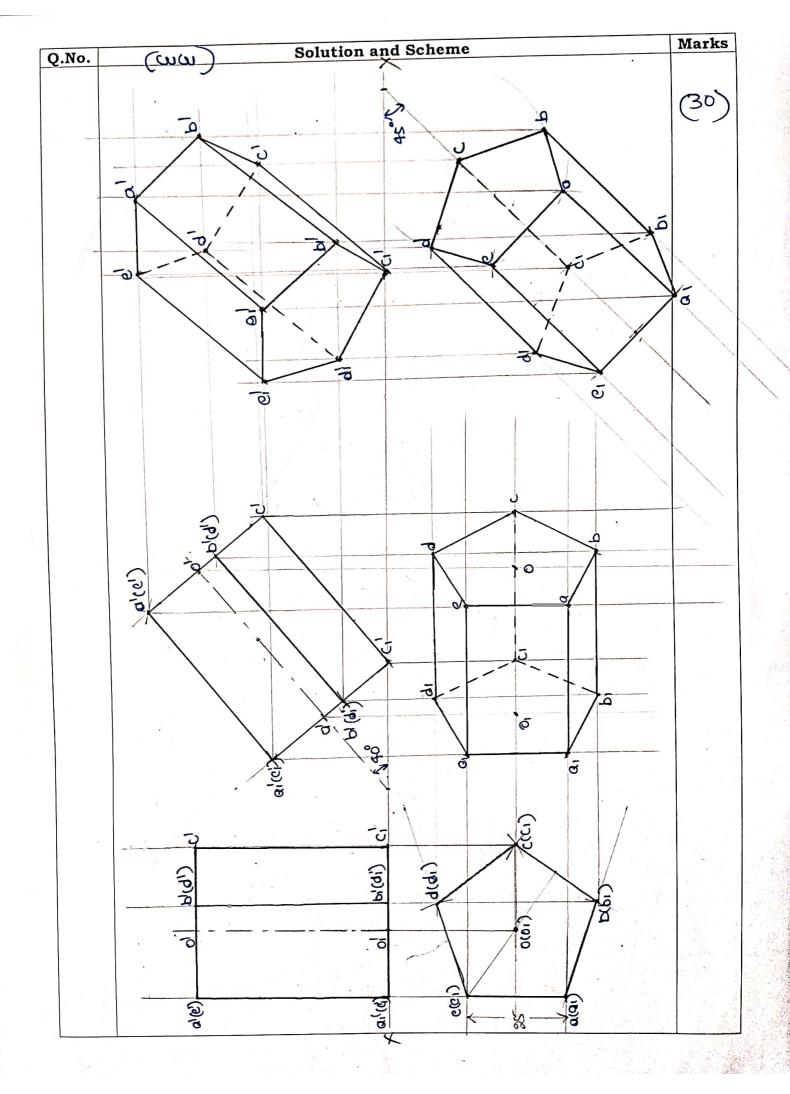
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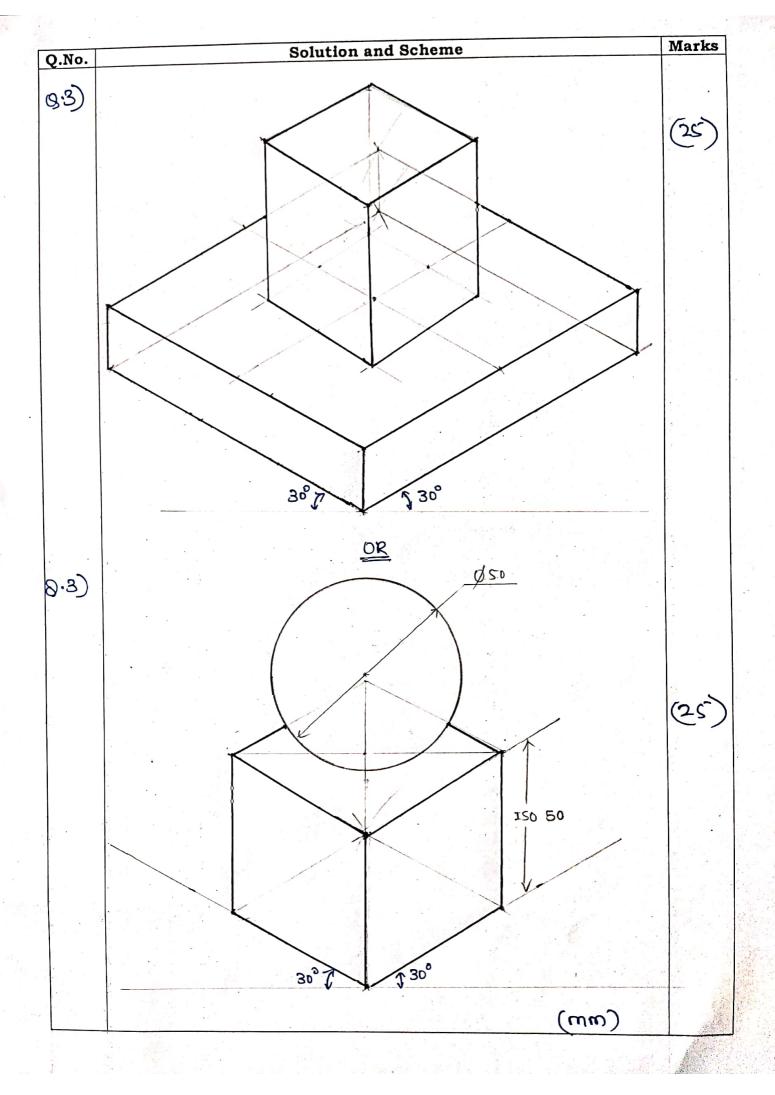
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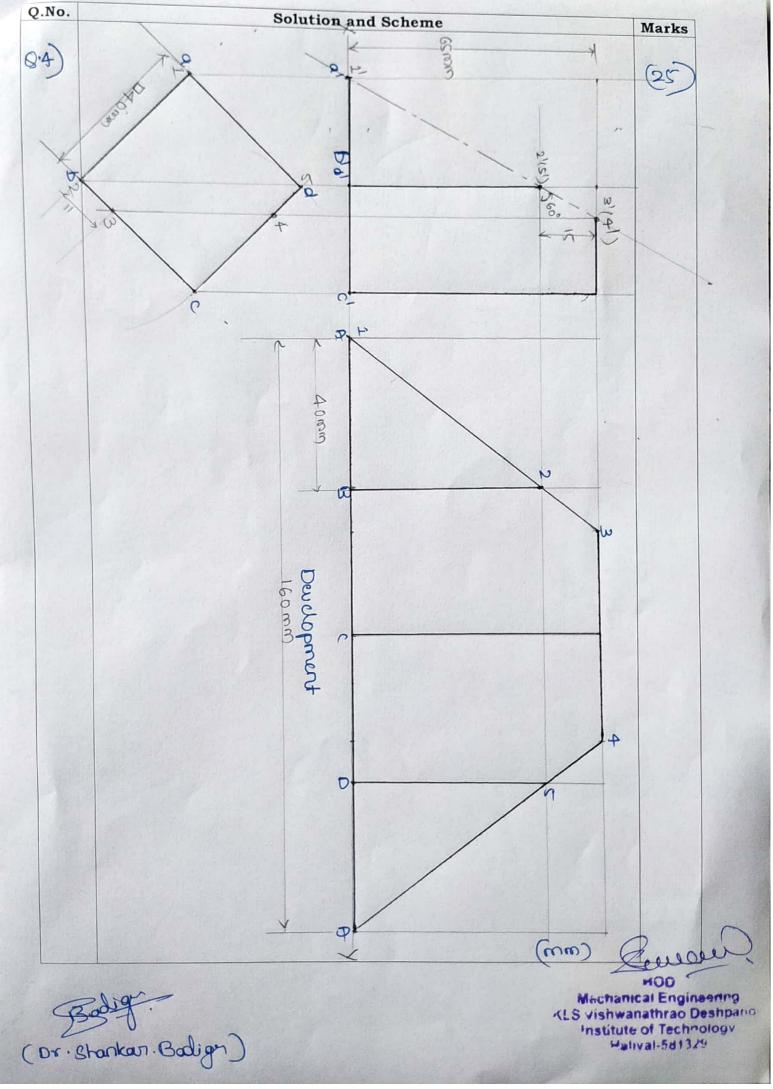
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