BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

SUBJECT: AR3301 BUILDING SCIENCE-I CLIMATOLOGY TIME: 3.00 HOURS FULL MARKS: 60	
 INSTRUCTIONS: 1. The question paper contains 7 questions each of 12 marks and total 84 marks. 2. Candidates may attempt any 5 questions maximum of 60 marks. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 	
	[4] [8]
Q.2(b) What is meant by Bio-Climatic chart? Explain.	[2] [4] [6]
Q.3 State how do a) Plan Form, b) Elevation Elements, c) Building Orientation and d) Surface area to [7 volume ratio affect the climate-responsiveness of a building.	[12]
	5] 7]
Q.5(b) List the typical types of exterior shading devices. Draw sketches.	[2] [4] [6]
	5] 7]
climate.	[6] [6]

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