

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(MID SEMESTER EXAMINATION)**

**CLASS: B.ARCH  
BRANCH: ARCHITECTURE & PLANNING**

**SEMESTER: III  
SESSION: MO/2022**

**SUBJECT: AR201 CLIMATOLOGY**

**TIME: 2 HOURS**

**FULL MARKS: 25**

**INSTRUCTIONS:**

1. The total marks of the questions are 25.
  2. Candidates attempt for all 25 marks.
  3. Before attempting the question paper, be sure that you have got the correct question paper.
  4. The missing data, if any, may be assumed suitably.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
- 

Q1	(a) What do you mean by elements of Climate?	[2]	CO
Q1	(b) How do they influence the Architecture of a region?	[3]	CO 1
Q2	(a) Describe the procedure of achieving the Climate balanced Architecture?	[2]	CO 3
Q2	(b) With examples describe how Climatology has helped shape the building forms since historic times.	[3]	
Q3	(a) Define Azimuth and Altitude angle.	[2]	CO 2
Q3	(b) Sketch a ' Bio-Climatic Chart' and explain how comfort zone is studied to find out bioclimatic requirement of a building.	[3]	
Q4	(a) How the thermal balance of the human body is maintained and why it's necessary ? Explain with necessary sketches.	[2]	CO 4
Q4	(b) Discuss the relation of climatic elements with human comfort.	[3]	
Q5	(a) Define Solar Architecture and classify with examples.	[2]	CO 2
Q5	(b) Discuss the relevance of Passive Solar Architecture in energy saving.	[3]	

: : : : : 26/09/2022 : : : : :M