

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2024)

CLASS: B ARCHITECTURE
BRANCH: ARCHITECTURE

SEMESTER : III
SESSION : MO/2024

SUBJECT: AR201 CLIMATOLOGY

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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		CO	BL
Q.1(a)	Define Climate and Weather.	[2] 1	1
Q.1(b)	Describe the relevance of Climatology in Building Design.	[3] 2	2
Q.2(a)	Differentiate between Micro & Macro climate.	[2] 1	3
Q.2(b)	How the thermal balance of Human body is maintained?	[3] 3	3
Q.3	Write short notes on (any two): i) Green House Effect ii) Building Orientation iii) Comfort Scale	[5] 3 & 4	2&3
Q.4(a)	Define and classify Solar Architecture.	[2] 4	1
Q.4(b)	Analyze the role of Building Envelope in controlling the indoor environment.	[3] 4	4
Q.5(a)	Assess the effect of major climatic elements on Human comfort.	[2] 3	5
Q.5(b)	Illustrate the relationship between Comfort Zone & Bioclimatic Chart with necessary sketches.	[3] 2	4

:::18/09/2024:::E