	LIBRARY		
CBCS SCHEME			
USN		* Bangelo	18ARC33
		Third Semester B.Arch. Degree Examination, Jan./Feb	2023
		Climatology	. 2025
Tim	ne: 3	hrs. M	ax. Marks: 100
	No	te: 1. Answer any FIVE full questions, choosing ONE full question from e 2. Draw neat sketches wherever necessary.	ach module.
		Module-1	
1	a. b.	List major and sub zones of tropical climate. Explain any five elements of climate in detail.	(05 Marks)
	0.		(15 Marks)
2		OR Explain the design considerations of hot and dry desert climate.	(20 Marks)
			(20 1111183)
3	a.	Explain any two thermal comfort indices in detail.	(10 Marks)
	b.	Explain thermal comfort and the factors affecting thermal comfort.	(10 Marks)
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4		Explain various heat exchange process of a building with outdoor environment	nent with respec
		to various types of heat flows.	(20 Marks)
		Module-3	1
5	•	Write short notes on: U value	
	a. b.	Cavity walls	(05 Marks) (05 Marks)
	c.	Thermal capacity	(05 Marks)
	d.	Thermal conductivity	(05 Marks)
		OR	
6		Explain periodic heat flow, time lag and decrement factor.	(20 Marks)
		Module-4	
7	0	Write short notes on: Wind catcher	
	a. b.	Natural ventilation	(05 Marks) (05 Marks)
	c.	Stack effect	(05 Marks)
	d.	Cross ventilation	(05 Marks)
		OR	
8		What are the shading devices? Explain various types of shading dev	
		buildings.	(20 Marks)
•		Module-5	
9		Describe with sketches the problems and solutions of day lighting in h humid climates.	ot dry and warm (20 Marks)
			(20 Marks)
10		OR Explain the design considerations for warm humid climate using a case stud Draw relevant sketches.	dy as an example. (20 Marks)
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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or centations written eg, 42+8 = 50, will be treated as malpractice.