CBCS SCHEME

USN			18ARC33	
Third Semester B.Arch. Degree Examination, Jan./Feb. 2023				
Climatology				
Time: 3 hrs. Max. Marks: 100				
Tim		5 III S.		
Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.				
2. Draw neat sketches wherever necessary.				
		Module-1		
1	a.	List major and sub zones of tropical climate.	(05 Marks)	
	b.	Explain any five elements of climate in detail.	(15 Marks)	
		OR		
2		Explain the design considerations of hot and dry desert climate.	(20 Marks)	
Z				
		Module-2	(10 Martra)	
3	a.	Explain any two thermal comfort indices in detail.	(10 Marks) (10 Marks)	
	b.	Explain thermal comfort and the factors affecting thermal comfort.	(10 Marks)	
		ÖR		
4		Explain various heat exchange process of a building with outdoor environment	it with respect	
		to various types of heat flows.	(20 Marks)	
		Module-3		
5		Write short notes on:		
	a.	U value	(05 Marks)	
	b.	Cavity walls	(05 Marks) (05 Marks)	
	c.	Thermal capacity	(05 Marks)	
	d.	Thermal conductivity	(00 1/201115)	
OR				
6		Explain periodic heat flow, time lag and decrement factor.	(20 Marks)	
Module-4				
7		Write short notes on:		
,	a.	WY 1 - 4-1 - v	(05 Marks)	
	b.		(05 Marks)	
	c.		(05 Marks) (05 Marks)	
	d.	Cross ventilation	(05 Marks)	
		OR		
8		What are the shading devices? Explain various types of shading devices	s used in the	
Ü		buildings.	(20 Marks)	
		Madulo 5		
•		Module-5 Describe with sketches the problems and solutions of day lighting in hot	dry and warm	
9		humid climates.	(20 Marks)	
	OR			
10		Explain the design considerations for warm humid climate using a case study	(20 Marks)	
		Draw relevant sketches.	(20)	
10		OR 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	as an example.	
10		Draw relevant sketches.	(20 Marks)	

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 equations written eg, 42+8 = 50, will be treated as malpractice.