CBCS SCHEME

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USN						

Third Semester B.Arch. Degree Examination, Dec.2019/Jan.2020 Climatology

Max. Marks: 100

Tin	ne: 3	hrs. Max. Ma	arks: 100									
	-	LAN Annual and EIVE full questions choosing one full question from each mod	ule.									
Note: Answer any FIVE full questions, choosing one full question from each module.												
		Module-1										
1	a.	What is Koppen Climate Classification? Explain in detail.	(10 Marks)									
	b.	Describe any two climatic zones in India.	(10 Marks)									
		OR	(20 Monks)									
2		Explain the Thermo-Regulatory process of the Human Body with sketches.	(20 Marks)									
		Module-2										
3	a.	What is Thermal comfort? Explain factors affecting thermal comfort.	(10 Marks)									
_	b.	Explain any two thermal comfort indices, with sketches.	(10 Marks)									
		OK	(10 Marks)									
4	a.	What is Solar Geometry? Explain its components, with sketches.	(10 Marks)									
	b.	Explain the thermal exchange process in buildings with sketches and equations.	(10 Marks)									
		Module-3										
5		Write short notes:										
3	a.	Resistance of Multilayer body										
	b.	Insulation										
	c.	Cavity wall										
	d.	Joule	(20 Marks)									
		OR'										
6		Write short notes on:										
	a.	Transmittance										
	b.	Sol-Air Temperature										
	c.	Time Lag	(20 Marks)									
	d.	Conductivity.	,									
		Module-4	(00.75 1.)									
7	a.	Explain the different types of shading devices, with sketches.	(08 Marks)									
	ь.	Explain the design process of any one of them, with suitable example.	(12 Marks)									
	4	OR										
8	•	What is natural ventilation? Explain the different types, with sketches.	(08 Marks)									
0	а. b.	Explain how natural ventilation can be optimized through design.	(12 Marks)									
	υ.	-										
		Module-5	(10 Mayles)									
9	a.	What is Daylight Factor? Explain its components, with sketches.	(10 Marks)									
	b.	Explain design considerations for daylighting in Hot-Dry climate, with sketches.	(10 Marks)									

OR

With the help of literature studies, explain the design considerations for buildings in 10 composite climate, illustrate with plan, section and views. (20 Marks)

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.