IV B. TECH I SEMESTER REGULAR EXAMINATIONS, NOVEMBER - 2023 GREEN BUILDINGS

(COMMON TO ECE, CSE&CSM BRANCHES)

Time: 3 hours

Max. Marks: 70

Note : Answer **ONE** question from each unit (5 × 14 = 70 Marks)

UNIT-I

1.	a)	Can you recall the major components of the Energy Conservation in India?	[7M]
	b)	Explain the importance of Green Building and its relevance. (OR)	[7M]
2.	a)	Can you discuss the relationship between water conservation strategies and energy-efficient buildings?	[7M]
	b)	Elaborate the different types of energy.	[7M]
		UNIT-II	
3.	a)	Can you recall the factors influencing microclimate in a specific geographical area?	[7M]
	b)	Explain the significance of integrating renewable energy sources into the design of energy-efficient buildings.	[7M]
		(OR)	
4.	Cla	assify and explain in detail about Solar PV Generating Systems. UNIT-III	[14M]
5.	a)	What are the key components of a Building Form Development Plan?	[7M]
	b)	How do various thermal insulation materials differ in terms of their effectiveness and application?	[7M]
		(OR)	
6.		plain any effective shading strategy for a building based on its entation in a hot climate.	[14M]
UNIT-IV			
7.	a)	Can you recall two passive cooling techniques commonly used in architecture?	[7M]
	b)	What are the key differences between skylights and traditional windows in architectural design?	[7M]
(OR)			
8.	Но	w does rainwater harvesting aid in mitigating water scarcity in	[14M]

urban areas?



UNIT-V

9. What are the different Green Rating Systems and outline their [14M] distinct focuses.

(OR)

10. What is the impact of energy-efficient building designs on reducing [14M] carbon emissions and their contribution to environmental conservation?

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