P P SAVANI UNIVERSITY

Third Semester of B.ID. Examination December. 2021

SDID2470 Interior Environment

21.12.2021, Tuesday Time: 9:00 a.m. To 12:00 a.m.

Maximum Marks: 100

[10]

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		S	ECTION I		
Q-1	MCQ/Short Question/Fill in the Blanks				[10
(i)	Shillong lies in which Climatic zone?				
	A] Composite		B] Warm and Humid		
	C] Hot and Dry		D] Cold and Cloudy		
(ii)	Full form of GRIHA is .		A State State Company		
(iii)	Ahemdabad lies in which Climatic zone?				
	A] Composite		B] Warm and Humid		
	C] Hot and Dry		D] Cold and Cloudy		
(iv)	-14 to 24°c temperature in summer and less then 200mm rainfall in monsoon – Which type of climate it is?				
	A] Composite		B] Warm and Humid		
	C] Hot and Dry		D] Cold and Cloudy		
(v)	What type of material should not use in hot and dry climate?				
	A] Brick	B] Stone	C] Wood	D] Glass	
Q - 2 (a)	What is green building? Explain its features in detail.			[5]	
	Benefits of Green Buildi				

Q - 2 (b) What is green building rating system

Q - 3 (a)	List out main 3 criteria of GRIHA rating system and explain in brief all the 3 criteria.			
Q - 3 (b)	List all climatic zones of India and explain in detail with Design factors, Weather condition with example.			
Q-4	Attempt any one, - Tropical climate and humidity - Definition of Conduction and convection in detail	[5]		
	SECTION II			
Q-1	MCQ/Short Question/Fill in the Blanks	[10]		
(i)	High height ceiling is used in type of climate			
(ii)	Temperature measures in			
(iii)	What is the wind direction of Southern part of India? A] N-E B] S-W C] S-E D] N-W			
(iv)	Precipitation measures in			
(v)	Wind measures in			
Q - 2	Explain the form and planning of Hot and Dry climate buildings	[10]		
	OR			
Q - 2	Explain the form and planning of Humid and Warm climate buildings			
Q - 3 (a)	Explain the heat exchange process in buildings			
Q -3 (b)	Short note on (i) Effective temperature (ii) Sun path diagram Sunpath diagram with chart and in detail			
Q-4	Attempt any one - Explain Thermal quantities in detail - Explain the role of heat and temperature in Thermal quantities	[10]		