

DAT-161001010306

Seat No. _____

B. Architecture (Sem. III) Examination May - 2022

Environmental Science & Services-I

Tim	ne : 2 Hours]		[Total Marks :	80
Inst	•	three out of question 1 to 8 pulsory.	5 and question 6	is
1	Explain with ne	at diagram : (any five)		15
	(a) Humidity			
	(b) Time-lag			
	(c) China mosa	nic floor		
	(d) Heat reflect	ting Glass		
	(e) Altitude an	d Azimuth of Sun-path Dia	gram	
	(f) Specific hea	at		
2	Explain stack and wind effect. What are the principle followed in planning for good natural ventilation in the building?			
3	Explain Various of Shading devices and their effectiveness 1 for different orientation.			15
4	Design strategie	s adopted in design of hous	ses at Div.	15
5	Explain the reasons from climate responsive point of 15			15
	view behind using this strategies: (any three)			
	(a) Use of eart	hy color on walls of houses	in Rajasthan	
	(b) Fountain in	the courtyard of an old Haveli	in Ahmedabad	
	(c) Protection of	of Glass Facade of a shop f	facing sun	

- (d) Roof Overhang on all four side of outer wall in South Indian houses
- (e) Decoration on the exterior stone facade of the Temple, fort etc.

6 Match the following:

5

- (1) Delhi
- (a) Cool sunny climate
- (2) Jaisalmer
- (b) Warm-humid climate

(3) Leh

- (c) Hot-dry climate
- (4) Trivandram
- (d) Composite climate
- (5) Pune
- (e) Temperate climate