

PBC-1601390101052900 Seat No. _____

Third Year B. A. (I.D) (Sem. V) (CBCS) Examination November / December - 2018 Environmental Science - I

Time: 2 Hours] [Total Marks: 50

Instructions: (1) All questions are compulsory.

(2) Any ambiguity will be considered as a wrong answer.

1 (a) True or false:

- 5
- (a) Streets are wider in Hot and Dry climatic conditions.
- (b) 'Jhali' is an important element seen in Hot and Dry climatic regions.
- (c) Smaller the openings, hotter are the wind flow.
- (d) Solar Azimuth angle defines in which direction the sun is, whereas the Solar Zenith angle or its complementary angle solar elevation defines how high the sun is.
- (e) WEST SIDE of a house should never be shaded.
- (f) Courtyards and Verandahs are not seen in Kerala/South India.
- (g) Houses in Cold climate are largely made up of wood.
- (h) Decrease air circulation in Humid / Mediterranean regions.
- (i) Buildings, in Monsoon climatic condition should not have a sloping roof.
- (j) One should not provide maximum shading of direct and reflected sun radiation in the hot season.

	(b)	Match the Following (to the closest	appropriate):	5
1.	Cold	Climate (a) Large windows and an important elem	l semi-open spaces ar	re
2.	IIsa i	-		
2. 3.		of Domes (b) Small openings and Jhalis are seen. and Humid (c) Houses are seen on stilts / high Plinths		g
4.		and Dry (d) Trapping of Heat/minimizing heat loss required.		
5.	Mons	soon (e) Hassan Fathy		
2	Atte	empt the following with sketches:	1	١0
	(a)	(a) Define the term ventilation.		
	(b)	Sketch double wall construction and the same.	d give use of	1 2
	(c)	Explain your understanding on macclimate.	ero and micro	2
	(d)	(d) Explain with neat sketches wind movement and its effects around the high rise buildings.(e) Explain the climatic characteristic of the region and (in-detail) design response by the following architect (in their work):		2
	(e)			3
		(a) Hassan Fathy		
		OR (b) Geoffrey bawa		
3	Attempt any one of the following:			5
	(a)	What is a Sun-Path Diagram? Explain OR	with illustrations.	
	(b)	Define topography. Give any two usin designing building. Give uses of landscape elements.		
4	-	plain Day lighting in detail with nea	t sketches 1	L 5