P P SAVANI UNIVERSITY

Third Semester of B. Arch. Examination December 2022

SAAR2100 Climatology & Environmental Studies - I

20.12.2022, Tuesday

Time: 01:00p.m. To 03:00p.m. Maximum Marks: 40

Instructions:

- 1. Write main answer sheet no. in your block report under main supplementary.
- 2. Read instructions carefully before starting.
- 3. Make suitable assumptions and draw neat figures wherever required.
- 4. Data given and assumed, in questions must be mentioned in the answers.

Q-1 Choose the correct answer.		[05]	СО	BTL
(i) The Ratio of actual amount of moisture present to the amount of mair could hold at a given temperature is known as, a) Absolute Humidity b) Relative Humidity c) Saturation po			2	1
(ii) The number and variety of plants, animals and other organisms the exist in an ecosystem is known as, a) Natural ecosystem b) Biodiversity c) Ecologous			1	1
(iii) Courtyards are less suitable in which climatic zone?			2	2
a) Hot& Dry b) Warm & Humid c) Comp	osite			
(iv) The Collective term used for Rain, snow, Hail, dew & frost is know	n as		2	1
a) Driving rain b) Rainfall c) Precip	oitation			
(v) When we design with the specific local environmental characterist we start to manipulate the relationship between the climate, the site a the building to create.			2	5
a) Air motion b) Clustering c) Micro	Climate			
Q-2 True or False.		[05]		
(i) An enclosed, compactly planned and inward-looking building is suitable in Cold climate.			2	4
(ii) Primary consumers are also called primary carnivores; they feed of primary consumers., they directly depend on the herbivores for their f	on food.		1	3
(iii) Tropical countries have warm weather as the dominant problem.			2	
				1
(iv) Fresh water constitutes a very large proportion of total quantity of the Earth's surface.			2	5

	that helps operators determine how providing thermal comfort for the		2	3
building occupants.				
Q-3 Write Short notes. (a) What are the elements of Cl Precipitation in detail.	imate? Explain solar radiation and	[10]	2	1
(b) What is Biodiversity? What	causes loss of biodiversity?		1	4
	OR		1	
Q-3 Write Short notes. (a) Write a Short note on: Body	heat exchange effect.	[10]	2	4
(b) Enlist different types of Eco Ecosystem.	systems. Explain Characteristics of Fore	est	1	2
Q-4 (a) Explain Water as impor usage of ground water.	tant natural resource. Enlist effects of e	xcess [05]	1	5
Q-4 (b) Enlist major climatic zo climate in detail with Example 8	nes in India. Discuss the Warm and Hur & sketches.	nid [05]	2	5
Q-5 Write short notes on follo	owing (Any 2)	[10]		
i) Describe the climatic profile hat you have studied.	of any geo-climatic region out of the Ind	lia,	2	4
(ii) How is the climate data organized so as to make comprehensible for the architect or the designer?		2	3	
(iii) Explain Hot and dry Climat	ic zone in detail with sketches.		2	4

CO : Course Out Level of Bloom's Revised Taxon		oms Taxonomy Le	vel	
1: Remember		3: Apply		
4: Analyze		Create		