PARUL UNIVERSITY FACULTY OF ARCHITECTURE & PLANNING B.Arch., Summer 2017-18 Examination

Semester: 3 Subject Code: 01101205 Subject Name: Architecture & Environment-III		Date: 16/05/2018 Time: 2:00 pm to 4:00 pm Total Marks: 50
1. All 2. Fig 3. Ma	actions: questions are compulsory. ares to the right indicate full marks. a suitable assumptions whenever required. w suitable sketches whenever required.	
Q.1	Explain: Day lighting and its Principles	(10)
Q.2	Attempt any five out of the following six:	(20)
1)	Define the following:	
	a. Environmental Science.	
	b. Longitude.	
	c. Comfort Zone.	
	d. Transmittance.	
2)	Explain 'Psychometric Chart'	
3)	Write short note on Earth Air Tunnel.	
4)	Explain the concept of Stevenson's Screen and its purpose.	
5)	What are the common sources of heat gain and heat loss in a building?	
6)	Sketch and explain any 4 types of windows with sketches.	
Q.3	Sketch the following in brief. (Any five)	(10)
	1. Wind Tower.	
	2. Solarium.	
	3. Earth sheltering.	
	4. Sky light.	
	5. Solar Chimney.	
	6. Egg Crate Windows.	
Q.4	Answer any two out the following three.	(10)
1)	List all the climatic zones of India and explain characteristics of any one i	in detail.
2)	Explain the concept of Mahoney Table and its implication in an architectu	ıral design.
3)	Explain Passive Cooling techniques with sketches.	