

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BA - SEMESTER-III EXAMINATION – WINTER 2018

Subject Code:1035005

Date:06/12/2018

Subject Name:Environmental Science

Time:10:30 AM TO 12:30 PM

Total Marks: 50

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	Explain the concept of periodic heat flow. Show the lag in same	05
	OR	
	Explain the concept of orientation of building and cross ventilation	
Q.2	Differentiate between hot-dry and warm-humid climate	05
	OR	
	Explain the concept of day light factor in case of hot dry climate	
Q.3	Explain the environment science study co-relate with the architecture	05
Q.4	What the climate. Enlist the all types of climate in brief	05
	OR	
	Describe the character of a building in hot-dry climate	
Q.5	Write a short note on (any one) 1.ventilation 2.passive cooling. 3. Passive heating techniques	05
Q.6	Define the terms (any five) 1.azimuth 2.altitude angle 3.humidity 4.thermal comfort 5.solar chimney 6.wind tower 7.conduction 8.cavity wall 9.effective temperature	05
Q.7	Explain how vernacular settlement and its architecture specimen in different parts of India to respective climate zone with at list two example	05
Q.8	Draw the sun path diagram for Gujarat and its important in architecture	05
Q.9	Explain the effect of positioning and control of opening and ventilation	05
	OR	
	Explain the opening in tropical climate zone	
Q.10	What is Mahoney table? State its important & application	05