Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY BARCH - SEMESTER- III • EXAMINATION - WINTER 2016

Subject Code:1035005			Date: 23/11/20	16
Tiı	me: 1 truction 1. 2. 3.	Name: Environmental Science 10:30AM – 12:30PM ons: Attempt all questions. Make suitable assumptions wherever necessary. Draw necessary diagrams where required. Figures to the right indicate full marks.	Total Marks:	50
Q.1	(a) (b	Describe characteristics of hot & dry climate. Differentiate design strategies of moderate & composite climate	te with diagram.	05 05
Q.2	(a)	Explain following terms with necessary diagrams (Any 5): 1. Dry bulb temperature 2. Wet bulb temperature 3. Meho 4. Passive cooling 5.Time-lag 6. Coriolis force 7. Polar wi	•	05
	(b)	How Earth-Sun relationship affects the radiation received at ea OR	rth?	05
	(b)	How does wind generate? Explain with diagrams		03
Q.3	(a) (b	What is ventilation? And why it is needed? How roof forms and overhangs affect wind? Explain with diag	rams.	05 05
Q.3	(a) (b)	OR Differentiate stack & reverse stack ventilation. Explain solar chimney with diagrams.		05 05
Q.4	(a) (b)	What should be taken care while using daylight? What is daylight factor?		05 05
Q.4	(a)	OR Explain Absorbsion, Reflection & Transmission of light.		0.5
	(b)	Explain Sun-Path diagrams with sketches.		0.5
Q.5		Describe any climate responsive traditional building for c diagram.	old climate with	10
Q.5		OR How landscape can be used to achieve climate responsiveness	in design.	10
