Seat No.: \_\_\_\_\_ Enrolment No.\_\_\_\_

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

Subject Code:1035005  Subject Name: Environmental Science  Time: 10:30AM – 12:30PM  Instructions:  Date: 23/			3/11/2016 arks: 50	
Q.1	(a) (b	Describe characteristics of hot & dry climate.  Differentiate design strategies of moderate & composite climate with diagram.	05 05	
Q.2	(a)	Explain following terms with necessary diagrams (Any 5):  1. Dry bulb temperature 2. Wet bulb temperature 3. Mehony table 4. Passive cooling 5.Time-lag 6. Coriolis force 7. Polar winds	05	
	<b>(b)</b>	How Earth-Sun relationship affects the radiation received at earth?  OR	05	
	<b>(b)</b>	How does wind generate? Explain with diagrams	0:	
Q.3	(a) (b	What is ventilation? And why it is needed? How roof forms and overhangs affect wind? Explain with diagrams.	05 05	
Q.3	(a) (b)	OR Differentiate stack & reverse stack ventilation. Explain solar chimney with diagrams.	0: 0:	
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.	05	
	<b>(b)</b>	Explain Sun-Path diagrams with sketches.	05	
Q.5		Describe any climate responsive traditional building for cold climate with diagram.	10	
Q.5		<b>OR</b> How landscape can be used to achieve climate responsiveness in design.	10	

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