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Seat No.:	Enrolment No.

Subject Code: 1045504

GUJARAT TECHNOLOGICAL UNIVERSITY BPLAN – SEMESTER IV• EXAMINATION – WINTER 2017

Date: 17/11/17

	_	et Name: Ecology and Environment 2.30 PM to 4.30 PM	tal Management Total Marks: 50	
Ins	2	ions: 1. Attempt all questions. 2. Make suitable assumptions wherever nec 3. Figures to the right indicate full marks.	eessary.	
Q.1	(a)	 (1) is the study of the interconnanimals and their environment (a) Ecosystems (b) Physics (2) Ecosystems can be very tiny or very land 	(b) Ecology(d) Chemistry	06
		(a) False(c) True	(b) Not sure(d) Don't know	
		(3) refers to the transitional region between two or more ecosystems.		
		(a) Biota(c) Ecotone	(b) Biome(d) Ocean	
		(4)Pollutants are broken do physical, chemical or biological processes (a) Bio-degradable (c) All		
		(5) Plants, animals are com(a) Biotic(c) Regular	ponents of an ecosystem. (b) Non-biotic (d) small	
		(6) Full form of EIA is		
		(a) Environmental Impact Assessment	(b) Economic Impact Assessment	
		(c) Economic Indian Assessment	(d) Environment Ideal Assessment	
	(b)	Define following terms: (Any Four) (1) Heterotrophs (2) Abiotic components (3) Autotrophs (4) Environment (5) Renewable Energy		04
Q.2	(a)	What is an Ecosystem? Explain different components of ecosystems.		05
	(b)	Explain what do you understand by the te examples of any one food chain.	erm 'Food chain' in an ecosystem? Give	05

OR

	(b)	What are the characteristics of an ecosystem?	05
Q.3	(a)	What are the impacts of urbanization on ecosystems?	05
	(b)	Explain 'Water cycle' with proper sketch.	05
Q.3	(a)	OR What are the different benefits of ecosystems?	05
	(b)	What are ecological pyramids? List three types of pyramids. Draw sketch to explain any one type of pyramid.	05
Q.4	(a)	Explain the 'Oxygen cycle'.	05
	(b)	What are the causes of destruction of different nutrient cycles in ecosystems?	05
	(b)	OR What are the advantages of using renewable energies?	05
Q.5	(a)	Define following terms with at least one example of each type. (1) Commercial energy (2) Renewable Energy (3) Non-renewable energy	05
	(b)	What is an Environmental Impact Assessment? Why is it important? OR	05
	(b)	Explain key steps in doing EIA studies for any development project.	05
