	S	eat No.: Enrolr	nent No	
_		GUJARAT TECHNOLOGICA		
]	BE - S	SEMESTER- 1 st / 2 nd EXAMINATION (NEW	SYLLABUS) – SUMMER 2018	
_		ode: 2110007	Date: 25-05-2108	
Subject Name: Environmental Studies Time: 02:30 pm to 05:00 pm Instructions:			Total Marks: 70	
ilisti u	1. (2. N	Question No. 1 is compulsory. Attempt any four or Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	ut of remaining Six questions.	
Q.1		Objective Question (MCQ)	Mark	
	(a)	Choose the most appropriate answer for t	the following multi choice 07	
	1.	questions: The range of temperature variation in mesosph (a) 20°C to -56°C (b) -2°C to -90°C (c) -56°C		
	2.	During photosynthesis, autotrophs take in (a) Oxygen (b) Carbon dioxide (c) Nitrogen (d) Sulphur	
	3.	Which ecosystem shows an inverted pyramid (a) Pond (b) Forest (c) Grassland (d) Desert	of biomass?	
	4.		nd water extraction	
	5.	(c) Improving irrigation efficiency (d) Avoid If the population of a species increases sudden (a) Population growth (b) over population growth	ly, is known as	
	6.	(c) population explosion (d) population: The death of infants per 1000 births, are know (a) Birth rate (b) Mortality (c) Infant mortality	n as	
	7.	Which of the following is not physical quality (a)Turbidity (b) Odour (c) Hardness (d) Temporary	1	
	(b)	Choose the most appropriate answer for t	the following multi choice 07	
	1.	Bhopal gas tragedy occurred due to leakage of (a) Chlorobenzene (b) Carbon monoxide (c) M		
	2.	Which one is not greenhouse gas? (a) CO ₂ (b) Ozone (c) CH ₄ (d) CFC		
	3.	Which one of the following is not a fossil fuel (a) Natural gas (b) Petrol (c) Coal (d) Uranium		
	4.	Global environmental problems are: (a) Global warming (b) Ozone depletion (c) Ac	cid rain (d) All of above	
	5.	is a greenhouse gas. (a) Nitrogen (b) Oxygen (c) Argon (d) Water v	apour	
	6.	Wild life protection act was enacted in (a) 1952 (b) 1955 (c) 1972 (d) 1982		
	7.	The world "Environment Day" is celebrated or (b) 15th June (b) 5th June (c) 5th January (d) 1		

Q.2	(a) (b) (c)	Define: (i) Consumers (ii) Producers (iii) Decomposers Write in points: Conservation in Environment. Why environmental education is important? Explain the impact of technology and development on environment.	03 04 07	
Q.3	(a) (b) (c)	Define and differentiate Undernourishment and malnourishment. Explain the various sources of water pollution. How ecological balance is maintained in ecosystem? Describe energy flow in ecosystem schematically.		
Q.4	(a) (b) (c)	Define: (i) Ecology (ii) Saprotrophs (iii) Eutrophication What the causes of land degradation Describe the importance of Biogeochemical cycles in biosphere. Explain Nitrogen cycle with the help of a diagram.		
Q.5	(a) (b) (c)	Define the term: Global Warming, Soil Erosion and Green House effect. Explain oxygen cycle with a neat sketch. Define the term Acid rain. Discuss the various causes and effects of acid rain on the environment.		
Q.6	(a) (b) (c)	What are the objects of Environmental protection act 1986. What are the effects of thermal pollution and detergents on aquatic life? What do you understand by acceptable noise level? Briefly describe the sources and effects of noise pollution.		
Q.7	(a) (b) (c)	Give full form of: GPCB, GEC and GSDMA Explain Food Web What are the environmental impacts of a coal based thermal power plant? Suggest suitable solution to the energy problems in view of growing population and industrialization of India.	03 04 07	
