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SARDAR PATEL UNIVERSITY

T.Y.BSc. Examination, 2016

SEMESTER VI

ENVIRONMENTAL BIOLOGY

Subject code -US06CBOT04 Date:04/04/2016 Day:Monday Time: 2.30to 5.30p.m. Total Marks: 70 Note: * All questions are to be attempted. *Figures to the right indicate marks. Choose the correct answer from the given options {10x1} 10 O. 1 1)The Biogas is produced by a consortium of anaerobic bacteria that induce..... a) Methanogens b) Sulfar c) Heptachlor d) DDT 2) Multiple microbial communities grow on solid surface to produce multilayered complexes called----a) Biofilms b) Bioscrubbers c) Biofilters d) Biotrickling filter 3)----is used to recover & remove metals from contaminated sites. a) Bio leaching b) Metal oxidation c) Microbial binding d) Chelation 4) Burning of fossil fuels emits: a) Carbon dioxide b) Carbon monoxide c) Nitrous oxide d) all the above. 5) Most of the CO emitted to the air comes from: a) Vehicular exhaust b) SPM c) Metals d) Decomposed organic matter 6) Mostimportant causative pollutant of soil may be: a)Iron junks b) Detergents c) Glass junks d) Plastics 7) Full form of IPCC is. a)Intergovernmental panel on climate change b) Indian governmental panel on climate change c) International panel on climate change d) Indian panel code on communication. 8)The conservation of rare and threatened species in its natural habitat is known a)ex-situ conservation b) in-situ conservation e) wild life conservation d) in vitro conservation 9) Environmental protection Agency is independent federal Agency of the U.S. Government established in..... a)1970 b)1980 c) 1960 d) 1990. 10)World Environment Day is celebrated on ----a) 5th June b) 26th Feb c) 23rd July d) 6th November

Q. 2	Answer the following question (Any ten).	20
	1) Define:Biofilms.	
	2) Difference between in-situ and ex-situ bioremediation?	
	3) Write the full form of OECD, TCE	
	4) Define: Pollution.	
	5) What are the principal pollutants of air?	
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	6) What do you mean by non-biodegradable pollutants?7) What are the sources of air pollution?	
	8) What is smog?	
	9) What is Green House Effect?	
	10) What do you mean by biological de-odorisation?	
	11) Define: Biotechnology.	
	12) Write the full form of UNEP and IUCN.	
Q. 3	What is bioremediation? Write a short account of various approaches and technologies of bioremediation.	10
	OR	
Q. 3	Write notes on:	05
	a) Need, scope and the environmental applications of bioremediation.	05
	b) The current status of bioremediation.	0.5
Q. 4	Write notes on:	
	a) How can you evaluate the cost of pollution.	05
	b) Acid rains.	05
0.4	OR What are the major sources of water pollution in our country? Discuss the nature	
Q. 4	of pollutants responsible for water pollution and suggest suitable methods of its control.	10
Q. 5	Describe Biotechnology and its Application in environmental protection.	10
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Q. 5	Discuss the causes and consequences of global warming and climate change.	10
Q. 6	Write short notes on:	05
	a) Environmental organizations.b) Environmental protection Act.	0.5
	b) Environmental protection Act.	100
	OR	
Q. 6	Discuss the goals, objectives and guiding principles of environmental education.	10

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