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SEAT No. _____

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SARDAR PATEL UNIVERSITY

Bsc. (VIth SEMESTER) Botany

US06CBOT04- ENVIRONMENTAL BIOLOGY

Date : 02/04/2018

Day: Monday

Time: 10:00a.m to 1:00p.m.

Total Marks: 70

Note : * All questions are to be attempted. * Figures to the right indicate marks.

Q. 1	<p>Choose the correct answer from the given options{10x1}</p> <p>1) The Biogas is produced by a consortium of anaerobic bacteria that induces.....</p> <p>a) Methanogens b) Sulfur c) Heptachlor d) DDT</p> <p>2) -----is used to recover & removal of metals from contaminated sites.</p> <p>a) Bio leaching b) Metal oxidation c) Microbial binding d) Chelation</p> <p>3) Multiple microbial communities grow on solid surface to produce multilayered complexes called.....</p> <p>a) Biofilms b) Bioscrubbers c) Biofilters d) Biotrickling filter.</p> <p>4) Eutrophication is caused due to.....</p> <p>a) Increase in the concentration of nutrients available b) Deficiency of oxygen c) Oil pollution d) Radioactive isotope,</p> <p>5) Which of the following is not a green house gas.</p> <p>a) CFC b) Water vapors c) Oxygen d) Co₂.</p> <p>6) Atmosphere moisture in the form of invisible vapor is known as:</p> <p>a) Humidity b) Phytoextraction c) Precipitation d) Photoperiodism.</p> <p>7) The most dangerous metal pollutant of auto mobile exhaust is.</p> <p>a) Silver b) Cadmium c) Lead d) Manganese.</p> <p>8) Environmental biotechnology involves:</p> <p>a) The use of microbes to clean up the environment b) Bioremediation c) The study of benefits and hazards associated with GMMS d) All of these.</p> <p>9) Environmental protection Agency is independent federal Agency of the U.S. Government established in.....</p> <p>a) 1970 b) 1980 c) 1960 d) 1990.</p> <p>10) Biodiversity conservation was held in.....</p> <p>a) 1992 b) 1994 c) 1995 d) 1996.</p>	10
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Q. 2	<p>Answer the following question (Any ten).</p> <ol style="list-style-type: none"> 1.Explain: Bioaugmentation. 2.Difference between in-situ and ex-situ bioremediation? 3.Define: Composting. 4.What is smog? 5. Define: Pollution. 6. What do you mean by non degradable pollutants? 7. State suspended particulate matter as aerial pollutants? 8. What is environmental protection act? 9. What do you mean by biological de-odorisation? 10. Who is involved with Biotechnology. 11. Explain: Goals of environmental education. 12. Write the full form of CPCB and IUCN . 	20
Q. 3	<p>What is bioremediation? Discuss the need, scope and the environmental applications of bioremediation.</p> <p style="text-align: center;">OR</p>	10
Q. 3	<p>Write note on:</p> <ol style="list-style-type: none"> a) Reversal of global warming by microorganisms. b) Bio filters and Biodesulphurisation. 	05 05
Q. 4	<p>Give an account of sources, pollutants and effects of water pollution. Suggest suitable methods of its control of water pollutants.</p> <p style="text-align: center;">OR</p>	10
Q. 4	<p>Write note on:</p> <ol style="list-style-type: none"> a) Green house effect b) Ozone harmful effects 	05 05
Q. 5	<p>Discuss the causes and consequences of global warming and climate change.</p> <p style="text-align: center;">OR</p>	10
Q. 5	<p>Write note on:</p> <ol style="list-style-type: none"> a) Application of biotechnology in Medicine. b) Application of biotechnology in Agriculture. 	05 05
Q. 6	<p>Write note on:</p> <ol style="list-style-type: none"> a) Formal Environmental education. b) Non-Formal Environmental education. <p style="text-align: center;">OR</p>	05 05
Q. 6	<p>Write note on:</p> <ol style="list-style-type: none"> a) Environmental organizations . b) The objective and guiding principles of environmental education. 	05 05