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SEAT No. \_\_\_\_\_

No. of Printed Pages : 2

**SARDAR PATEL UNIVERSITY**  
**B.Sc.6<sup>th</sup>-SEMESTER**  
**BOTANY-US06CBOT04**  
**(Environmental Biology)**

**01-04-2019 Monday 10.00 am to 1.00pm Marks: 70**

**I. Choose the correct answer.**

**(10)**

- (i) Thermal pollution of water bodies is due to discharge of:  
(a) heat from powerhouse (c) agricultural waste  
(b) wastes from mining (d) chemicals from industries
- (ii) Multiple microbial communities grow on solid surface to produce multilayered complexes called \_\_\_\_\_.  
(a) biofilters (b) bioscrubbers (c) biofuels (d) biotrickling filter
- (iii) The biogas is produced by a consortium of \_\_\_\_\_ bacteria  
(a) Acidogenic (b) Methanogenic (c) both a and b (d) none
- (iv) Eutrophication is caused due to \_\_\_\_\_.  
(a) Deficiency of oxygen (c) Oil pollution  
(b) Radioactive isotope (d) Increase in the concentration of nutrients available
- (v) Most important causative pollutant of soil may be:  
(a) glass junks (b) plastics (c) iron junks (d) detergents
- (vi) Burning of fossil fuels emits:  
(a) Carbon monoxide (b) Carbon dioxide (c) Nitrous oxide (d) all the above
- (vii) The full form of IPCC is:  
(a) Indian Panel Code On Communication  
(b) International Panel on Climate Change  
(c) Indian Governmental Panel on Climate Change  
(d) Intergovernmental Panel on Climate Change
- (viii) An example of gaseous form of Acid deposition is:  
(a) Dew (b) Frost (c) Sulphates (d) Nitrogen oxide
- (ix) Environmental Protection Agency is independent federal Agency of the U.S. Government established in:  
(a) 1960 (b) 1970 (c) 1980 (d) 1990
- (x) World Environment Day is celebrated on \_\_\_\_\_.  
(a) 6<sup>th</sup> November (b) 26<sup>th</sup> February (c) 23<sup>rd</sup> July (d) 5<sup>th</sup> June

(1)

(P.T.O.)

2. Attempt (any ten).

(20)

- (a) Define: 'Rhizosphere bioremediation.'
- (b) Explain: Biofilms.
- (c) What is bioremediation?
- (d) How does ozone layer get depleted?
- (e) What are the principal pollutants of air?
- (f) What do you mean by non-degradable pollutants?
- (g) Write about sources of metals in water pollution.
- (h) Write the factors affecting climate change.
- (i) What is Green House Effect?
- (j) What do you mean by biological de-odorisation?
- (k) Write the full form of UNEP and IUCN.
- (l) Write the objectives of environmental education.

3. Explain the need, scope and environmental application of bioremediation. (10)

OR

3. Write an account of various approaches and technologies of bioremediation. (10)

4. (a) How can you evaluate the cost of pollution? (05)

(b) Explain: Air pollution control through law. (05)

OR

4. Give an account of sources, pollutants and effects of water pollution. Suggest suitable methods of control of water pollutants. (10)

5. Give a note on: Conservation strategies in the management of biodiversity. (10)

OR

5. Discuss the causes and consequences of global warming and climate change. (10)

6. Write short notes on: (a) Environmental Protection Act. (05)

(b) Environmental organizations. (05)

OR

6. Write in detail: The objectives and guiding principles of environmental education. (10)

— X —  
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