

**P. S. SCIENCE & H. D. PATEL ARTS COLLEGE, KADI**

**Internal Examination**

**B. Sc. SEM - VI**

**[Mark : 40**

**22-3-2016]**

**Environmental Biotechnology**

**[1-30 to 3-00**

**CC - 603**

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1. Attempt all the questions. Each question carries 1 mark. 10
- (1) Which of the bacteria is considered for biological leaching?  
A) *T. thiooxidans*                      B) *T. ferrooxidans*  
C) *Ferrobacillusferrooxidans* D) All of these
- (2) Environment Biotechnology involve \_\_\_\_\_  
A) Use of microbes to clean up environment  
B) Bioremediation  
C) The study of benefit and hazard associated with genetically modified microorganism  
D) All of these
- (3) Nonbiological foreign chemicals are termed as \_\_\_\_\_  
A) Antibiotic                              B) Probiotic  
C) Xenobiotic                             D) All of these
- (4) Expand DDT.
- (5) Define Biofertilizer.
- (6) \_\_\_\_\_ involved in Vermi culture biotechnology for solid waste management.  
a) red earth worm                      b) weed  
c) Both a & b                             d) None of these
- (7) Addition of known active microbes to soil or water with the purpose of accelerating microbial process is called as \_\_\_\_\_  
A) Bioaugmentation                    B) Biostimulation  
C) Biodegradation                      D) All of these
- (8) Which of following agent can be used for maintaining PH of compost?  
a) Lime                                      b) Gypsum  
c) Rock Phosphate                      d) All of these

- (9) The first step in the biodegradation of many contaminants is \_\_\_\_\_
- A) Denitrification                      B) Decarboxylation  
C) Dehalogenation                      D) Transpeptidation
- (10) If BOD of a river is found very high, it shows
- a) Water is highly polluted      b) Water is clean  
c) Water has minerals              d) All of these

**2. Answer any 4 questions. Each question carries 5 marks. 20**

- (1) Write down a note on Bioplastic.
- (2) Give the definitions (any five)
- a) Ready biodegradability      b) Anaerobic Digestion  
c) Biostimulation                  d) Recalcitrant compound  
e) Eutrophication                  f) Compost
- (3) Draw the reductive dechlorination pathway of PCE.
- (4) What is Biomagnifications process? Explain with example.
- (5) List out various pollutants present in air and water environment.
- (6) Write down a note on MEOR.

**3. Answer any one question. Each question carries 10 marks. 10**

- (1) Give a brief idea on Waste Water Treatment Process. Explain in detail any one Waste Water Treatment Process.
- (2) Define bioremediation. Write down name of microbes involved in bioremediation process. Describe in detail ex-situ bioremediation
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