

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

Internal Examination

B. Sc. Semester – VI

8-03-2018 Biotechnology: CC-BT-603 [Mark:
40] Environmental Biotechnology [2Hrs]

Q.1. Attempted all question.

1*1 =10

- Expand 2, 4 D.
- Expand PHB.
- Algae use as indicator microorganism. (True / False)
- Define-: Bioremediation
- Most commonly used Phosphorus Solubilizing Bacteria.
a) *Pseudomonas* b) *Bacillus*
c) *Flavobacterium* d) All of these
- 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
- Which of following agent can be used for maintaining PH of compost?
a) Lime b) Gypsum c) Rock Phosphate d) All of these
- Which of the bacteria is considered for biological leaching?
A) *T. thiooxidans* B) *T. ferrooxidans*
C) *Ferrobacillus ferrooxidans* D) All of these
- 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

10. 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

Que. 2 Attempt any Four out of following. Each Question Carry

5marks

4*5=20

1. Explain in detail Biodegradation and Biomagnifications of DDT.
2. Explain in detail Biodegradation of Halogenated Aromatic Compound.
3. Discuss Microbes use as indicators.
4. Write down a note on Bioplastic.
5. Give the definitions (any five)
 - a) Sludge
 - b) Bioremediation
 - c) BOD
 - d) Bioremediation
 - e) Eutrophication
 - f) compost
6. Write down a note on MEOR.

Que. 3 Attempt any one out of following. Each Question Carry

10 marks

1*10 =10

1. Explain in detail fate and transport of contaminant.
2. What is waste water treatment? Describe in details tertiary waste water treatment.