

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

Internal Examination

B. Sc. Semester – VI (MARCH 2019)

Biotechnology:-BT-603

Environmental Biotechnology

DATE -07/03/19

[Mark:40]

[2Hrs]

Q.1. Attempted all question.

1*1=10

1. Expand DDT.
2. Expand PHB.
3. Algae use as indicator microorganism. (True / False)
4. Define:- Bioremediation
5. Most commonly used Phosphorus Solubilizing Bacteria.
 - a) Pseudomonas
 - b) Bacillus
 - c) Flavobacterium
 - d) All of these
6. 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
7. Which of following agent can be used for maintaining PH of compost?
 - a) Lime
 - b) Gypsum
 - c) Rock Phosphate
 - d) All of these
8. In a sludge tank, the gas mainly produced is
 - A) Oxygen
 - B) Nitrogen
 - C) Hydrogen
 - D) Carbon dioxide
9. 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. Which of the following is a common index organism of water contamination?
 - A) Coliforms
 - B) Rhizobia
 - c) Cyanobacteria
 - D) Staphylococci

Que. 2 Attempt any Four out of following. Each Question Carry 5 marks

4*5=20

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

Que. 3 Attempt any one out of following. Each Question Carry 10 marks

1* 10 =10

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