

B.Sc Sem.-6 (Rep) Examination

CC 310

Biotechnology

Time : 2-30 Hours]

September-2024

[Max. Marks : 70

- Instructions:**
- (1) Draw figures wherever necessary.
 - (2) Show question number against each answer.
 - (3) Figures in right are marks.

- Q.1 A Discuss the Testing and Indian standards for drinking water. (14)
OR
- Q.1 A Explain Aeration process used for the treatment of liquid waste. (07)
- Q.1 B Discuss the types of Landfills and its uses. (07)
- Q.2 A Define Bio-Medical Waste. Discuss the categories of Bio-medical waste and the steps involved in its management. (14)
OR
- Q.2 A Write a note on Biopiles, listing its advantages and drawbacks. (07)
- Q.2 B Discuss the causes and effects of Bioaccumulation & Biomagnification. (07)
- Q.3 A Discuss the organisms, mechanism, advantages, and applications of Bioleaching. Explain bioleaching of Uranium. (14)
OR
- Q.3 A Write a note on the production of Hydrogen. (07)
- Q.3 B Discuss the mechanism of Microbial enhanced oil recovery. (07)
- Q.4 A Discuss on Global Warming in details. (14)
OR
- Q.4 A What is a Pest? Discuss Integrated Pest Management. (07)
- Q.4 B Explain Microbial risk assessment. (07)
- Q.5 Answer the following (Any 7): (14)
- i. What is meant by the "chemical oxygen demand"?
 - ii. Define: Bioaccumulation
 - iii. Which bioremediation methods are used to control water pollution?
 - iv. What is Bioslurping?
 - v. Give any four examples of Recalcitrant Xenobiotic compounds.
 - vi. Define: Environmental Impact Assessment
 - vii. Define Biofilm in Waste water treatment.
 - viii. Which methods are used for microbial control of algal bloom?
 - ix. What is Greenhouse Gases?
 - x. Define: Biodiversity Conservation
 - xi. What is the function of trickling filter in Wastewater treatment?
 - xii. What is Acid rain? Write the reactions involved in the development of Acid rain.
