

**FACULTY OF SCIENCE**

B.Sc. (CBCS) III-Year (VI-Semester) Regular & Backlog Examinations, June-2023

Biotechnology-VI (B)

**(Environmental Biotechnology)**

Time: 3 Hours

Max Marks: 80

**SECTION-A**

(4x5=20 Marks)

Answer any Four questions from the following

1. How industrial effluents affect the environment?
2. Distinguish between renewable and non-renewable energy sources.
3. Write short note on Chemical fertilizers.
4. Explain about xenobiotic compounds.
5. What is COD?
6. Write short note on climate change.

**SECTION-B**

(4x15=60 Marks)

Answer all the following questions

7. (a) Discuss on how domestic, agricultural and municipal waste effects the environment pollution.  
(OR)  
(b) Define greenhouse effect. Explain in detail on source of greenhouse effect and its impact on environment.
8. (a) Discuss on the production of biohydrogen and biomethane.  
(OR)  
(b) Explain on how fossil fuels are the source of energy and give examples.
9. (a) What are Biopesticides? Explain different type of biopesticides and uses.  
(OR)  
(b) What are Biofertilizers? Discuss on bacterial biofertilizers with example and give applications.
10. (a) Explain aerobic and anaerobic treatment of sewage and industrial water waste.  
(OR)  
(b) What is Bioremediation? Explain different types of bioremediations.