

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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B.Sc. (Hons.) Biotechnology 5th Semester
(2123)

ENVIRONMENTAL BIOTECHNOLOGY

Paper : BIOT-502-T

Time Allowed : Three Hours]

[Maximum Marks : 67

Note :—Attempt **five** questions in all. Question No. 1 is compulsory. Select **one** question from each Unit. All questions carry equal marks except Q. 1.

1. (a) What is London Smog ? 2
- (b) What is Bio-Hydrogen ? 2
- (c) Define Mycoremediation. 2
- (d) What is BOD and COD ? 3
- (e) What are Biopesticides ? List examples. 3
- (f) Differentiate between Biosorption and Bioleaching. 3

UNIT—I

2. (a) Write about control measures of Noise Pollution. 6
(b) What are types and sources of Air Pollution ? Discuss. 7
3. (a) Differentiate between Renewable and Non-renewable Resources. List their Environmental Impacts. 6
(b) What are Modern Fuels and how are they useful ? Give examples and deliberate on their Environmental Impacts. 7

UNIT—II

4. (a) Discuss about sources of Water Pollution. 6
(b) Write notes on :
(i) Trickling Filters
(ii) Rotating Biological Contactors. 7
5. (a) Explain the microbiology of Aerobic Waste Water treatment strategies. 6
(b) Elaborate on characteristic features and working of UASBR. 7

UNIT—III

6. Deliberate on mechanisms of Environmental degradation of Pesticides and Hydrocarbons. 13

7. (a) What are Biofertilizers and how are these applied in Soil Enrichment ? 6
- (b) Write a note on Integrated Pest Management. 7

UNIT—IV

8. What is Municipal Solid Waste ? Discuss types, sources and composition. 13
9. (a) What are Bioindicators ? Discuss role and use in Pollution control. 6
- (b) What are Landfills ? What are their advantages and limitations in waste management ? 7