

Roll No.....

Total No. of Units : 04

Total No. of Printed Pages : 03

Code No. : 02/208

Second Semester Examination, May 2019

M.Sc. BIOTECHNOLOGY

Paper - II

ENVIRONMENTAL BIOTECHNOLOGY

Time : 3 Hrs.

Max. Marks : 80

- Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences.
Part C (Short answer type) of each question should be answered in 200-250 words.
Part D (Long answer type) of each question should be answered within the word limit 400-450.

Unit - I

Q.1 A. What is standard prescribed value of SO₂ in residential and rural area in India? (2)

Q.1 B. What is use of oxidation ditch in control of water pollution? (2)

Q.1 C. What is Acid rain and its impact on flora and fauna? (4)

OR

What do you understand by tertiary treatment for control of water pollution?

Q.1 D. Write about the parameters for monitoring the air quality for a human habitat. (12)

P.T.O.

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OR

What are source, characteristics, effects and treatment options for waste water? Explain.

Unit - II

Q.2 A. What are physical characteristics of waste water? (2)

Q.2 B. How colloidal and suspended impurities cause turbidity in receiving water? (2)

Q.2 C. Write about chemical characteristics of waste water. (4)

OR

Write about organic pollutants of water.

Q.2 D. What are sources characteristics and effects of tannery wastes and how it can be treated from a water body? (12)

OR

Describe in detail about various control measures for sewage treatment.

Unit - III

Q.3 A. What is polychlorinated biphenyls (PCB)? (2)

Q.3 B. Explain microbial pesticide. (2)

Q.3 C. What is Anoxic degradation of Xenobiotics? (4)

OR

Write about sorting and management of solid waste.

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Q.3 D. What is Bioremediation? Explain various technologies applied for Bioremediation. (12)

OR

What are biopesticides? What are its types and applications?

Unit - IV

Q.4 A. What is ozone depletion? (2)

Q.4 B. In which year, water prevention and control of pollution act was introduced in India? (2)

Q.4 C. Explain in brief about green house effect. (4)

OR

What is effect of cosmic rays on climate change? Explain.

Q.4 D. Describe various rules and regulations related to patenting. (12)

OR

Justify, global warming is absolutely an anthropogenic event. Give both pros and cons.

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