

This question paper contains 2 printed pages.

Roll No. _____

S.No. _____

B.Sc. (Part.-II)

8005-III

**B.Sc. (Part-II) Examination, 2021
(Faculty of Science)**

(Common to Three and Five Year Integrated Course)

BIO-TECHNOLOGY

(Environmental Biotechnology-II)

Paper : BT-503

Time Allowed : Three Hours

Maximum Marks : 50

No supplementary answer book will be given to any candidate. Hence the candidates should write the answers precisely in the main answer book only.

All the parts of one question should be answered at one place in the answer book. One complete question should not be answered at different places in the answer book.

Note: (i) Question paper will be divided into two Parts A and B. **Part-A** of question paper shall be compulsory and contain 10 (Ten) very short answer type questions of 20 words covering entire syllabus. Each carrying 1 (One) mark, with a total of 10 marks.

(ii) **Part-B** of question paper will have 4 questions one question with internal choice from each Unit/section. Students are required to attempt four questions in all from Part-B, selecting not more than one question from each section. Each question will carry 10 marks, with a total of 40 marks.

Write your roll number on question paper before start writing answer of questions.

PART-A

1. All questions are compulsory. Each question is of one marks.
 - (a) What are the components of a food chain?
 - (b) What is Acid Rain?
 - (c) What causes salinization of Soil?
 - (d) What is waste and give its types?
 - (e) Name the 3 principles of waste management.

- (f) Write about Hybrid reactor.
- (g) Define Bioremedian.
- (h) Give any two examples of Bioindicators.
- (i) What is the main objective of Environmental Protection Act 1986?
- (j) Write full form of APCP and EPA. 1×10=10

PART-B

2. Write notes on the following : 5+5=10
- (a) Ozone depletion and its effects.
 - (b) Sources and control of soil pollution.

Or

Give an account on aspects of various waste treatment methods with emphasis on sequential batch reactor. 5+5=10

3. Describe the process of bioremediation through microbes and plants. 10

Or

Discuss about bioconversions and utilization of Agricultural waste. 10

4. Write notes on the following : 5+5=10
- (a) Bioremediation of organic pollutants.
 - (b) Biodiversity loss.

Or

Write notes on the following :

- (a) Phosphorous cycle.
 - (b) Biomarkers.
5. Give an account on sources, impact and control strategies of water pollution. 10

Or

Write notes on the following : 5+5=10

- (a) Bio-logical and chemical treatments of waste water.
- (b) IUCN and its role in Environmental protection.