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Roll No.

B.Sc. (Bio-Tech.)-III Yr

NS-3477

B.Sc. Bio-Technology Examination, May 2017

Environmental Bio-Technology

(B-305)

(New)

Time: Three Hours]

[Maximum Marks: 75

Note: This paper is divided into three Sections

A, B and C. Section-A Contains Very Short Answer Questions, Section-B Contains Short Answer Questions and Section-C contains Descriptive Answer Questions. Attempt **all** the sections as per instructions.

P.T.O.

Section-A

Note: This section contains five questions, all questions are **compulsory**. Answer each questions with in 50 words. Each question carries 3 marks. $5 \times 3 = 15$

1. Define Renewable resources and give two examples?
2. How biocatalysts are useful in remediation of Pollutants?
3. What are biofertilizers? How these are helpful in crop growth?

Write notes on any two of the following:

What do you understand by Pesticides?

Section-B

Note: Attempt any three questions. Each questions carries 10 marks. $3 \times 10 = 30$

What do you understand by fire-line resources? Describe the methods of forest conservation?

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2. What are Methanogens? Discuss the classification of Methanogens?

3. Writes notes on :

(a) Superbug

(b) Bioaccumulation

4. Discuss the rules regarding the use of GMO crops?

5. Why are biofertilizers considered to be an important alternative source of Plant nutrition? Explain.

Section-C

Note: Attempt any two questions. Each question carries 15 marks. 2 × 15 = 30

1. What do you mean by renewable energy resource? Discuss the use and over Exploitation of surface and ground water in India?

2. Describe the microbial bioremediation in detail and also discuss the factors that affect bioremediation?

3. Discuss Plant based fuel production such as ethanol in detail?

4. Describe the alternative sources of energy production with reference to biogas production?