



M.Sc. 3rd Semester
Examination, Dec.-Jan., 2021-22

BIOTECHNOLOGY

Paper - XII

Environmental Biotechnology

Time : Three Hours] [*Maximum Marks* : 80
[*Minimum Pass Marks* : 16

Note : Answer **all** questions. All questions carry equal marks.

1. Write notes on the following :
 - (a) Types of pollution
 - (b) Chemical treatment of waste water
 - (c) Xenobiotics
 - (d) Green house effect and acid rain

(2)

2. Describe the air pollution and its control through biotechnology.

OR

Write notes on the following :

- (a) Global environmental issues
- (b) Methodology of environmental management

3. Discuss the role of microbiology in waste water treatments.

OR

Write notes on the following :

- (a) Physical method of waste water treatment
- (b) Water pollution and its control
- (c) Aerobic process

4. What is Bioremediation ? Explain the different techniques of bioremediations with suitable examples.

OR

Write short notes on any **two** of the following :

- (a) Biodegradation of hydrocarbons
- (b) GMO and their impacts
- (c) Surfactant pesticides

(3)

5. What do you mean by IPR ? Describe different types of IPR ?

OR

Write short notes on any **two** of the following :

- (a) Role of National Organisation in Biotechnology
 - (b) Integrated pest management
 - (c) Ozone depletion
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