

PD-555
M.Sc. Biotechnology
3rd Semester Examination, Dec 2020
Paper-IV
Environmental Biotechnology

Time: Three Hours]

[Maximum Marks: 80

[Minimum Pass Marks: 29]

Note: Answer from **both** the sections as directed. The figures in the right-hand margin indicate marks

Section-A

1. **Answer the following questions:** 1X10

- (a) Measuring BOD is primarily used for what?
- (b) The presence of which microorganism in water body is an indicator of water pollution.
- (c) Why Carbon dioxide is primarily called a greenhouse gas?
- (d) Mention a negative effect cause to human health due to depletion of the ozone layer.
- (e) Write expand form of IPR?
- (f) What is superbug?
- (g) Which disease cause by drinking water containing fluorides?
- (h) What is Xenobiotics?
- (i) What is activated sludge?
- (j) Write a limit cause to humans due to air pollution?

2. **Answer the following questions:** 2X5

- (a) Write a note on sound pollution.
- (b) Explain about sources of water pollution.
- (c) Write a note on GMO.
- (d) Explain briefly on trademark.
- (e) Write a note on Breeder's right.

Section - B
Unit-I

Answer the following questions: 15X4

3. Write an essay on Role of biotechnology in environmental monitoring and control.

OR

Explain in detail on methodology of environmental management.

Unit-II

4. Write an essay on waste water treatment.

OR

Write an essay on sources and measurements of water pollution.

Unit-III

5. What is Bioremediation? Explain in detail.

OR

Write an essay on biodegradation of petroleum products and jet fuel oil.

Unit-IV

6. Write an essay on solid waste management.

OR

Explain in detail on role of national organization in biotechnology.