

**PD-555**  
**M.Sc. Biotechnology**  
**3<sup>rd</sup> Semester Examination, Dec 2020**  
**Paper-IV**  
**Environmental Biotechnology**

Time: Three Hours]

[Maximum Marks: 80  
[Minimum Pass Marks: 29

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

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**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.
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