



Department of Food Technology
School of Interdisciplinary Sciences and Technology
Jamia Hamdard, New Delhi-110062

Roll No.....

END SEMESTER EXAMINATION (December, 2025).
BTech Food Technology (I Sem)

Paper Title: Environmental Science

Paper Code: ES-01

Time allotted: 2Hrs 30Min

Max Marks: 60

Important: At the END, mention how many questions from each section you have attempted.

Note: Write to the point. Do not insert margins in the answer sheet. Before answering make sure you have mentioned the Question No. & Section. No continuation sheets will be provided.

Section-A (2 Marks each, Attempt All)

Questions

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| Q1. How are Environmental Science based concepts used in Food Industries? | g
PO1: /CO:1 |
| Q2. What is the current AQI in Delhi and what preventive measure should be taken? | PO4: /CO:3 |
| Q3. All bioreactors are fermenters. Justify this statement. Why or why not? | PO3: /CO: 3 |
| Q4. Explain importance of biological oxygen demand in aquatic eco-system. | PO1: /CO:2 |
| Q5. How do Bio-sensors analyse Environmental Conditions ? | PO4: /CO:3 |

Section- B (Attempt any 6) (5 Marks Each)

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| Q6. What are the two different indicators used in biotechnology? | PO:4 /CO:4 |
| Q7. Explain Waste & Disaster Management. | PO:3/CO:3 |
| Q8. Explain Bio-diversity at national and local levels. | PO:4 /CO:4 |
| Q9. Write various types of resources based on their renewability and exhaustibility. | PO:1 /CO:2 |
| Q10. Write a short note on Bio-sphere & its origin. | PO:3 /CO:4 |
| Q11. Explain various types of Pollution. | PO:4 /CO:3 |
| Q12. What are the different levels of organization in Environment? | PO:2 /CO: 3 |

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BTech 9.12.25
1st Sem
2025.

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Section C (Attempt any 2) (10 Marks Each)

Q13. Discuss in detail the following:

- a. Forest, Water, Mineral and Land as Resource
- b. Structure & Functions in an ecosystem
- c. Distribution of Air & Water in Bio-sphere
- d. Chemical composition of Plants & Animals.

PO:1 /CO:1

Q14. Explain in detail Biodiversity, mentioning its threats, and various strategies taken for its conservation.

PO:3/CO: 2

Q15. Explain in detail Environmental Pollution covering types, prevention, and management.

PO:2 /CO:3

Q16. Explain in detail the need for utilizing of Bio-remediation, bio-pesticides, bio-reactors & phyto remediation

PO:4 /CO:4