



OEBT111

Reg. No.

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I Semester B.Sc. Degree Examination, May/June - 2022

**BIOTECHNOLOGY**

Biotechnology For Human Welfare

(NEP CBCS Scheme - 2020-2021 Onwards)

Paper : Open Elective - 1 (OE)

Time : 2½ Hours

Maximum Marks : 60

**Instructions to Candidates:**

Answer any four questions for each Section.

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**SECTION - A**

I. Answer any Four of the following.

(4×2=8)

1. Bio fuels.
2. Water soluble vitamins.
3. Exsitu bioremediation.
4. Pollutants.
5. Vaccine delivery.
6. Antibiotic.

**SECTION - B**

II. Answer any Four of the following.

(4×5=20)

7. What is spirulina. Add a note on its nutritive value. (2+3)
8. What is Yoghurt? Write its health benefits. (2+3)
9. What is waste management. Mention the different types of waste management. (1+4)
10. What is Bioremediation. Explain the types of Bioremediation. (2+3)
11. What are vaccines. Name the different types of vaccines. (2+3)
12. What is Gene therapy. Differentiate between somatic cell and Germline gene therapies. (2+3)

[P.T.O.]

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**SECTION - C**

**III. Answer any Four of the following.**

**(4×8=32)**

13. What are the different types of cheese. Explain its industrial production. (2+6)
14. What are bioplastics. Mention advantages and disadvantages. (2+3+3)
15. Write note on
  - a. Air pollution.
  - b. Soil Pollution. (4+4)
16. What is biodegradation. Explain degradation of heavy metals. (2+6)
17. Define Molecular diagnostics. How is PCR used in Diagnosis. (2+6)
18. What are transgenic animals. Add a note on its applications. (2+6)

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