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(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2024**

Biotechnology

BTY 5D 01—INTRODUCTION TO BIOTECHNOLOGY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

*Draw Diagrams wherever necessary***Section A (Short Answers)***All questions can be answered.**Each question carries 2 marks.**Ceiling 20 marks.*

1. What are DNA ligases ?
2. What is a sticky end ?
3. Name any *two* transgenic plants ?
4. What is DNA fingerprinting ?
5. What are sparkling wines ?
6. What is Humulin ?
7. Which is the first recombinant protein successfully produced ?
8. What are SCP ?
9. What is Malting ?
10. What is Sauerkraut ?
11. What is brewer's yeast ?
12. Name any *two* organisms used in acetic acid fermentation.

Turn over

Section B (Paragraph)

*All questions can be attended.
Each question carries 5 marks.
Ceiling 30 marks.*

13. Narrate the fermentative production of cheese.
14. What are probiotic organisms ? How do they benefit our health ?
15. Narrate the production of acidophilus milk .
16. Narrate the steps in mushroom cultivation.
17. What are benefits of biotechnology in medical diagnosis and treatment ?
18. What are biopesticides and biofertilizers ?
19. What are restriction endonucleases ?

Section C (Essay Type)

*Answer any **one** question.
The question carries 10 marks.*

20. What are applications of transgenic plants ?
21. What are the steps in cloning a gene and expressing in a bacterial host ?

(1 × 10 = 10 marks)