

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
APRIL 2021**

Biotechnology

BTY 4C 04—ENVIRONMENTAL BIOTECHNOLOGY

Time : Two Hours

Maximum : 60 Marks

Section A

Answer at least eight questions.

Each question carries 3 marks.

All questions can be attended.

Overall Ceiling 24.

1. *Trichoderma viridae.*

2. PLA.

3. Bioventing.

4. Pruteen.

5. Bioaugmentation.

6. Cometabolism.

7. Lignocellulose.

8. Bioethics.

9. Energy crops ?

10. Flavr Savr tomato ?

11. Cry gene ?

12. Heap leaching.

(8 × 3 = 24 marks)

Turn over

Section B

*Answer at least **five** questions.
Each question carries 5 marks.
All questions can be attended.
Overall Ceiling 25.*

13. Describe the production of GMO.
14. State the mechanism of action of thuringiensis toxin.
15. Explain methanogenesis and biogas production.
16. Explain the biological production of hydrogen.
17. Explain the production of uranium through bioleaching.
18. Give a brief account on viral biopesticides.
19. How bioderived poly ethylene is synthesized ?

(5 × 5 = 25)

Section C

*Answer any **one** question.
Each question carries 11 marks.*

20. Explain the strategies of bioremediation.
21. Write down an essay on biological nitrogen fixers.

(1 × 11 = 11)