

C 61282-A

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Name.....

Reg. No.....

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019

(CUCBCSS—UG)

Biotechnology

BTY 4C 15—ENVIRONMENTAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 64 Marks

Section A

Answer all questions in a word or Phrase.

Each question carries 1 mark.

1. Biolac.
2. Biosorption.
3. BTEX.
4. Phytostimulation.
5. DNAPLs.
6. Dehalorespiration.
7. Bioventing.
8. Biofiltration.
9. SCP.
10. Gasification.

(10 × 1 = 10 marks)

Section B

Give short answer to any seven out of ten questions.

Each question carries 2 marks.

11. Antisense RNA mechanism.
12. Biopol.
13. Bioleaching.
14. Biosensors.
15. Yeast as SCP.
16. Phytoextraction.

Turn over

17. Methanogenesis.
18. Safety of biofertilizers.
19. PLA.
20. Biodeasal from petro crops.

(7 × 2 = 14 marks)

Section C

*Answer in a paragraph to any **four** out of six questions.*

Each question carries 5 marks.

21. Explain the bioremediation of soil.
22. Production of Ethanol from biomass.
23. Spirulina as SCP, production and application.
24. Bioplastic from PHB.
25. Bioleaching of Uranium.
26. Viral biopesticides.

(4 × 5 = 20 marks)

Section D

*Write essays on any **two** questions.*

Each question carries 10 marks.

27. Comment on the significance of genetically modified organisms.
28. Discuss the methods of biopower generation.
29. Discuss *B. Thuringiensis* as a natural pesticide.
30. Explain the production of biogas by micro-organisms.

(2 × 10 = 20 marks)