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Name.....

Reg. No.....

THIRD SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CUCBCSS—UG)

Biotechnology

BTY 3C 11—ENVIRONMENTAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 64 Marks

Section A

Answer all the questions in a word or phrase.

Each question carries 1 mark.

1. What is sludge treatment ?
2. Methanogenic bacteria.
3. Bioremediation.
4. Landfilling
5. What is pollutant ?
6. Domestic waste.
7. Biosparging.
8. PCB.
9. Heap technique.
10. Xenobiotics.

(10 × 1 = 10 marks)

Section B

Give short answers to any seven out of ten questions.

Each question carries 2 marks.

11. Effects of acid rain.
12. What are the factors which deteriorate the air quality ?
13. What are the major enzymes used in biodegradation ?
14. What is bio filtration technology ?
15. What is bio magnification ?
16. What is co metabolism ?
17. What is sedimentation ?
18. Write on various hazards from wastes and pollutants.
19. What is composting ?
20. What is solid waste management ?

(7 × 2 = 14 marks)

Turn over

Section C

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

Each question carries 5 marks.

21. What is the principle of bacterial degradation ?
22. What are the causes of ozone layer depletion ?
23. Write a note on Biogas production.
24. What is trickling filter process.
25. Biodegradation of petrochemical effluents.
26. Write about the control of pollutants from vehicles.

(4 × 5 = 20 marks)

Section D

Write essays on any two questions.

Each question carries 10 marks.

27. Describe causes and impact of air pollution. Point out steps to reduce air pollution.
28. Explain the various approaches for solid waste management.
29. Discuss the causes of greenhouse effect and its consequences on the environment.
30. What are the methods adopted in biodegradation of organic compounds ? Explain.

(2 × 10 = 20 marks)