



QP CODE: 24020199



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, MAY 2024**

Second Semester

B.Sc Zoology and Industrial Microbiology Model III Double Main

Core Course - ZI2CRT04 - MICROBIAL WASTE MANAGEMENT

2017 ADMISSION ONWARDS

6232459B

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Solid waste.
2. Example of soil organism.
3. Static pile.
4. Source of municipal sewage.
5. Oxidation pond.
6. Flac.
7. Methods of chlorination.
8. Chlorine di oxide.
9. Eutrophication.
10. Mac conkey broth.
11. Toxic substances.
12. Thiobacillus ferro oxidance.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Explain vermicomposting. Describe biofuel .
14. Brief note on Liquid waste and sources of liquid waste.
15. Explain reuse of sewage.
16. Write short note on anaerobic sludge digestion process.
17. Write short on disposal of treated sewage.
18. Give a brief note on microbiological water quality standards.
19. Write short notes on water pollution and water borne diseases.
20. Write short note on Total count technique.
21. Discuss bioremediation and different methods.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. What is composting? Describe briefly on the role of microorganisms in composting.
23. Write an essay on primary and secondary sewage treatment process.
24. Explain briefly on BOD and COD.
25. Write an essay on Biodegradation of lignin, cellulose and plastics.

(2×10=20)

