



**K23U 0523**

**Reg. No. : .....**

**Name : .....**

**VI Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/  
Improvement) Examination, April 2023  
(2019 and 2020 Admissions)  
CORE COURSE IN MICROBIOLOGY  
6B14 MCB : Sanitation Microbiology**

**Time : 3 Hours**

**Max. Marks : 40**

**PART – A**

**Answer all the questions. Each question carries 1 mark.**

**(6×1=6)**

1. HEPA filter.
2. Define COD.
3. UV treatment.
4. Alum.
5. Sanitary survey.
6. Coliforms.

**PART – B**

**Answer any 6 questions. Each question carries 2 marks.**

**(6×2=12)**

7. Bioremediation.
8. IMViC reactions.
9. What are the different sewerage systems ?
10. Sources of airborne pathogens.
11. Why is *E.Coli* considered as an indicator of pollution ?

**P.T.O.**



12. Comment on algal bloom.
13. Disinfection of potable water.
14. Comment on indicator organisms and their importance.

PART – C

Answer **any 4** questions. **Each** question carries **3** marks.

**(4×3=12)**

15. Briefly describe anaerobic digesters.
16. Define the following terms : effluent, sludge, activated sludge, lagoon, coagulation, BOD.
17. Illustrate the production of biogas.
18. Briefly describe the physical, chemical and microbiological characteristics of sewage.
19. Discuss the major waterborne diseases and their transmission.
20. Write a note on importance of sanitation in public health.

PART – D

Answer **any 2** questions. **Each** question carries **5** marks.

**(2×5=10)**

21. Outline the process of wastewater treatment which is followed in large cities. Which steps in the process depends on microbial activity for successful performance ? Explain.
  22. Discuss the role of microorganisms in environmental sanitation management.
  23. Discuss the principles, methodology and application of Vermicomposting.
  24. Discuss the significance of air sanitation. Give a detailed account of air sterilization in hospitals, surgical theatres and in viral inoculation rooms.
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