



**K21U 0136**

Reg. No. : .....

Name : .....

**VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.)**

**Examination, April 2021**

**(2014 – 2018 Admissions)**

**CORE COURSE IN MICROBIOLOGY**

**6B16 MCB – Sanitation Microbiology**

Time : 3 Hours

Max. Marks : 40

**SECTION – A**

Answer **all** questions.

1. Name the recycling method that uses earthworms.
2. Expand COD.
3. The mesh like structures formed by masses of bacteria associated with fungal filaments in secondary treatment of sewage is referred as \_\_\_\_\_
4. HEPA filters are used in sewage treatment (True/False). **(4×1=4)**

**SECTION – B**

Answer very briefly on **any seven** questions out of **14**.

5. Landfills.
6. Biofilms.
7. Laminar air flow.
8. Biofilters.
9. Anderson sampler.
10. Anaerobic digester.
11. MPN.
12. Air sanitation.

**P.T.O.**



13. Rotating bio contactor.
14. *Pseudomonas putida*.
15. Biodegradable and non biodegradable solid wastes.
16. Oxidation pond.
17. Chlorination of water.
18. Methanogens.

(7×2=14)

#### SECTION – C

Answer **any four** questions out of **eight** briefly.

19. Secondary sewage treatment.
20. Vermicomposting.
21. BOD.
22. Methanogenesis.
23. Indicator microbes in water technology.
24. Bioremediation of oil spills.
25. Characteristics of sewage.
26. Microbiological examination of water.

(4×3=12)

#### SECTION – D

Answer **any two** questions out of **six**.

27. Define sewage. Describe various methods used for sewage treatments.
28. Explain air sanitation-methods.
29. Write on design and management of biogas plant.
30. Explain solid waste management systems.
31. Write an essay on composting.
32. Give an account of the purification of water.

(2×5=10)