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B.M.S COLLEGE FOR WOMEN, AUTONOMOUS
BENGALURU – 560004
SEMESTER END EXAMINATION – SEPTEMBER -2023

Open Elective – II SEMESTER
MICROBIOLOGY
ENVIRONMENTAL MICROBIOLOGY AND HUMAN HEALTH

Course Code: MB2OEC02

Duration: 2 ½ Hours

QP Code: 2211

Max marks: 60

- Instructions:** 1. Answer all the sections.
2. Draw diagrams wherever necessary.

SECTION-A

I. Answer any TEN of the following in one word or sentence each. (1X10=10)

1. Mention the constituents of loam soil.
2. What is Alluvial soil?
3. What is Stratosphere?
4. Give the full form of TMV.
5. Give the full form of MRSA.
6. Mention the symptoms of Fusarium wilt.
7. What is Tetanus?
8. What is Cholera?
9. Give the name of the microorganism which is present in polluted water.
10. What is hydrophilic interaction?
11. What are the cohesive properties of water
12. Mention the two molecules present in water.

SECTION-B

II. Answer any TEN of the following.

(2X10=20)

13. Define Communicable diseases with an example
14. Write a short note on actinomycetes.
15. Public hygiene plays a role in controlling communicable diseases. Justify the statement.
16. Define biopesticides and give an example.
17. Mention the causative agent of amoebic dysentery and the disease symptoms.
18. Define soil and mention the layers present in the soil horizon.
19. Mention the causative agent of salmonellosis and the disease symptoms.
20. Define air sport.
21. Mention different types of water bodies.
22. Mention two uses of water.
23. What is potable water?
24. Mention two microorganisms present in freshwater.

SECTION-C

III. Answer any FOUR of the following.

(4X5=20)

25. Explain the harmful effects of microorganisms in the soil.
26. Explain the beneficial effects of microorganisms in the soil.
27. Explain the epidemiology of microbial infections, detection, and control.
28. Explain the diseases caused by microorganisms present in the soil.
29. Mention the properties of water
30. What are the standard qualities of water?

SECTION-D

IV. Answer all of the following.

(1X10=10)

31. The vaporized water is called...
 - a. Groundwater
 - b. Atmospheric water
 - c. Surface water
 - d. Impounded water

32. The study of water microbes is called....

- a. Air microbiology
- b. Water microbiology
- c. Soil microbiology
- d. None of these

33. Microbes found at the bottom of oceans are called

- a. Limnos
- b. Phytoplankton
- c. Benthos
- d. None of these

34. The aroma of freshly plowed land at certain times of the year is probably due to

- a. Bacteria
- b. Actinomycetes
- c. Yeast
- d. Algae

35. Which soil is suitable for the growth of cotton?

- a. Black
- b. Alluvial
- c. Desert
- d. Marine deposit

36. Microorganisms act upon the dead plants to produce

- a. Mushrooms
- b. Roughage
- c. Humus
- d. Decomposers

37. The microbial ecosystem of soil includes

- a. Biotic components

- b. Abiotic components
- c. Biotic and abiotic components
- d. None of the above

38. Which of the following infectious diseases can be transmitted through contaminated food or water?

- a. Tuberculosis
- b. Malaria
- c. Cholera
- d. Syphilis

39. Canned food poisoning is commonly linked to which of the following microorganisms?

- a. *Staphylococcus aureus*
- b. *Vibrio cholerae*
- c. *Taenia solium*
- d. *Clostridium botulinum*

40. Which of the following diseases is airborne?

- a. Typhoid
- b. AIDS
- c. Cholera
- d. TB
