



QP CODE: 23104751



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR/IMPROVEMENT/REAPPEARANCE
EXAMINATIONS, FEBRUARY 2023**

First Semester

B.Sc Zoology Model II Medical Microbiology

Vocational Course - ZM1VOT01 - FUNDAMENTALS OF MICROBIOLOGY

2017 Admission Onwards

42C532CE

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Spontaneous generation theory.
2. Who contributed to vaccination?
3. Define antibiotics.
4. Role of microorganism in agriculture microbiology.
5. Role of COI in microbiology.
6. What are hyperthermophiles?
7. Name a beneficial microbe and harmful microbe.
8. Which filter has a limited usage due to its carcinogenic nature?
9. Give examples and use of ionising radiation.
10. Write about any 2 alcohol used in a microbiology laboratory.
11. Dark field stop.
12. Dye used to stain specimen in fluorescent microscopy is called as _____ give 2 examples.

(10×2=20)

Part B

*Answer any **six** questions.*

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





13. What is germ theory of disease and who stated the theory?
14. What is numerical taxonomy?
15. What are the molecular tools used for taxonomy?
16. Write about 16s rRNA used in classification.
17. Describe the classification of antibiotics based on the mode of action.
18. How do you sterilise the air entering into a surgical unit and explain the principle of the same?
19. Differences between Bright field and dark field microscope.
20. Difference between SEM and TEM.
21. What is the principle of negative staining? Explain.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Write in detail about the historical development of microbiology.
23. Describe the various criteria used for classification of bacteria.
24. What are the various ways to control the growth of microorganisms?
25. Explain the principle and working of phase contrast microscope.

(2×15=30)

