

2 MJ 60304

THREE YEAR B.Sc. (CBCS) DEGREE EXAMINATION, APRIL/MAY 2024.

SECOND SEMESTER

Botany (Major)

Course IV – ORIGIN OF LIFE AND DIVERSITY OF MICROBES

(w.e.f. 2023–24 Admitted Batch)

Time : Three hours

Maximum : 70 marks

(No additional sheet will be supplied)

I. Answer any FIVE questions.

(5 × 4 = 20 marks)

1. Pasteur Experiments.
2. Discovery of microorganisms.
3. Archae bacteria.
4. *Chlamydiae*.
5. Binary fission.
6. Conjugation.
7. Mutualism.
8. Parasitism.
9. Mass production.
10. Mode of applications.

II. Answer ALL questions.

(5 × 10 = 50 marks)

11. Write about Five kingdom classification of R.H. Whittaker.

Or

12. Write about significance of viruses in vaccine production, biopesticides and cloning vectors.

13. Explain general characteristics, outline classification and economic importance of Actinomyces and Cyano bacteria.

Or

14. Explain about the Culture and Cultivation of Spirulina.

15. Describe the distribution and cell structure of Eubacteria.

Or

16. Discuss about the Economic importance of Eubacteria with reference to their role in Agriculture and industry.

17. Explain about the factors influencing Soil of microflora and role microorganisms in Soil fertility.

Or

18. Write about the Micro organisms of rhizosphere, phyllosphere and Spherosphere.

19. Explain about the Role of Frankia and VAM in Soil fertility.

Or

20. Write an essay on Microbial pesticides.