

Q.P. Code – 42240

Second Semester B.Sc. Degree Examination, April/May 2019

(CBCS – Semester Scheme)

Microbiology

Paper MBT 2.3 — MICROBIAL DIVERSITY, TAXONOMY AND CULTURE TECHNIQUES

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates :

- 1) *Answers all questions.*
- 2) *Draw diagrams wherever necessary.*

PART – A

- I. Answer any **TEN** questions in 1 or 2 sentences : **(10 × 2 = 20)**
1. Numerical taxonomy
 2. Monera
 3. Species
 4. Heterocysts
 5. Endospore
 6. Nitrogen fixing bacteria
 7. Capsid
 8. SARS
 9. Sporangiospores
 10. Cilia
 11. Binary fission
 12. Transport media

PART – B

- II. Answer any **SIX** of the following : **(6 × 5 = 30)**
13. Write a note on Whittaker's five kingdom classification.
 14. Give an account of Anabaena.

Q.P. Code – 42240

15. Describe the cell morphology and reproduction of actinomycetes.
16. List the general properties of viruses.
17. Write a note on :
 - (a) Prions
 - (b) H1N1
18. Write a note on :
 - (a) Importance of diatoms
 - (b) Reproduction in Amoeba
19. Mention the salient features and significance of ascomycetes.
20. Discuss the effect of temperature on the growth of microorganisms.

PART – C

- III. Answer any **FOUR** of the following : **(4 × 10 = 40)**
21. Compare Bacteria, Archaea and Eukarya.
 22. Explain cell morphology, reproduction and significance of spirochetes.
 23. Discuss the structure, multiplication and significance of HIV.
 24. Explain the biology of Paramecium.
 25. Discuss in detail nutritional requirements for the growth of microorganisms.
-