

D 31887

(Pages : 2)

Name

Reg. No.

**SECOND SEMESTER B.Sc. DEGREE (SUPPLEMENTARY) EXAMINATION
DECEMBER 2012**

(CCSS)

Microbiology

MB 2B 02—MICROBIAL TAXONOMY

Time : Three Hours

Maximum : 30 Weightage

Part A

I. Objective type questions. Answer *all* twelve questions :

1. Which among is a ssRNA viruses ?
(a) Poliovirus. (b) Poxvirus.
(c) Revoviruses. (d) Rhabdovirus.
2. The most studied group of Bacteriophages are :
(a) Cyanophages. (b) Mycophages.
(c) Coliphages. (d) None of the above.
3. Sexual fusion of two gametes are called :
(a) Karyogamy. (b) Gametogamy.
(c) Ookinetes. (d) None of the above.
4. Name a phototrophic bacteria :
(a) *Rhodospirillum rubrum*. (b) *Brucella abortus*.
(c) *Morganella*. (d) *E.Coli*.
5. What are Molecular chronometers ?
6. What is Jaccard coefficient ?
7. What is Ribotyping ?
8. What are peplomers ?
9. Sarcocysticosis is a disease caused by _____
10. In Binomial Nomenclature the 1st word denotes _____
11. Serotyping is a _____ type of reaction. —
12. _____ is an enveloped ssRNA virus.

(12 x = 3 weightage)

Turn over

Part B

II. Short answer type questions. Answer *all* nine questions :

13. What is heteroduplex ?
14. What is an episome ?
15. What is commensalism ?
16. What is cytopathic effect ?
17. What is proteomics ?
18. Note on Deutromycetes.
19. What is contractile vacuole ?
20. What is colicin typing ?
21. What is coenocytic hyphae ?

(9 x 1 = 9 weightage)

Part C

III. Short essay or paragraph questions. Answer any *five* questions from seven :

22. Why G + C % is more significant in bacterial identification ?
23. Explain how protein comparative study helpful for bacterial classification.
24. Explain any *one* method for nucleic acid sequencing.
25. With suitable example, explain Nomenclature of bacteria.
26. Describe general properties of viruses.
27. How will you assess Microbial Phylogeny ?
28. Discuss evolutionary significance of Archaeobacteria.

(5 x 2 = 10 weightage)

Part D

IV. Essay questions. Answer any *two* questions from three :

29. Describe the molecular techniques used for bacterial identification and explain how they are more significant.
30. Classify protozoa describing major Taxa.
31. Discuss classification and general characteristics of bacteriophages.

(2 x 4 = 8 weightage)