

S.No. 1990

12UMBS01

(For the candidates admitted from 2012–2013 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Second Semester

Microbiology

SBEC — MICROBIAL DIVERSITY

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define protista.
2. Explain Eukaryotes.
3. Define thermophilic bacteria.
4. Explain Mycelium.
5. Define Biotrophs.
6. Explain Carotenoids.
7. What is Phycobilin?

8. Define Pili.
9. Explain Zoophaginae.
10. Define Viroids.

PART B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Describe an Eukaryotic cell with suitable diagram.
Or
(b) Describe the salient differences between prokaryotic and Eukaryotic cell.
12. (a) Briefly describe the Bergey's systematic classification of Bacteria.
Or
(b) Give an account on methanogens.
13. (a) Write a short notes on myxomycota.
Or
(b) Outline the general characteristics of fungi.
14. (a) Give an account on general characteristics of algae.
Or
(b) Write a short note on xanthophyta.

15. (a) Give an account on Flagellata.

Or

- (b) Write a short note on Rhizopoda.

PART C — (3 × 10 = 30 marks)

Answer any THREE out of Five.

16. Briefly describe Whittaker's five kingdom classification of micro organisms.
17. Describe about the staining reaction and Biochemical properties to identify bacteria.
18. Explain about the terrestrial fungi.
 - (a) Ascomycetes
 - (b) Zygomycetes
 - (c) Basidiomycetes
19. Explain briefly the classification of algae.
20. Describe about the lytic life cycle and lysogenic life cycle.