

NOVEMBER/DECEMBER 2019

BBT31 — MICROBIOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.



1. What is spontaneous generation?
2. What is the need to classify microbes?
3. Give the role of Pill in bacteria.
4. Name the causative agent of common cold.
5. Define fed batch culture.
6. Comment few lines about stroke culture.
7. Mention any two economic importance of algae.
8. What is mycelium?
9. Name few fumigants.
10. What is meant by negative statining?

SECTION B — (5 × 5 = 25 marks)

Answer all questions.

Each answer should not to exceed 200 words.

11. (a) Who is called as the Father of antiseptic surgery? Highlight his contributions.

Or

- (b) Explain Whittaker's classification of microbes.

12. (a) Discuss the cultural characteristics of *Staphylococcus aureus*.

Or

- (b) Differentiate the biochemical tests for *E. Coli* and *Salmonella*.

13. (a) Classify microorganisms based on temperature.

Or

- (b) Give an account on Streaking and pour plate method.

14. (a) What are the characters shared by fungi?

Or

- (b) Write notes on the pigments found in algae.

15. (a) What is meant by cold sterilisation? Explain any one.

Or

- (b) Write notes on the different filters used for sterilization.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

Each answer should not to exceed 500 words.

16. Describe about Edward Jenner and his discovery. Add a note on Pasteruization.

17. Explain the structures internal to the cell wall of Bacteria.

18. Discuss the following

(a) Nutritional requirements of bacteria (7)

(b) Enrichment media (3)

19. Explain the lytic and Lysogenic cycle of virus.

20. Explain differential staining with reference to capsule and endospore.