

**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University) Coimbatore – 641 043.
Bachelor's Degree Examination-November 2018
I Semester**

**Class : I UG
Major: Biochemistry and Biotechnology**

**Time : 3 hrs
Max Marks: 100**

18BBTCO2 –MICROBIOLOGY

**Part-A
Choose the correct answer**

10 x 1=10

1. Who discovered the concept of Microscope?
 - a. Louis Pasteur
 - b. Aristotle
 - c. Leeuwenhoek
 - d. Robert Koch
2. Who is called as father of fermentation?
 - a. Leeuwenhoek
 - b. Edward Jenner
 - c. Louis Pasteur
 - d. Robert Koch
3. Which of the following part is very much essential for locomotion process in Bacteria?
 - a. Nucleus
 - b. Flagella
 - c. Centriole
 - d. Mitochondria
4. Which one compounds are mainly found in bacterial cell wall?
 - a. Cellulose
 - b. Pectin
 - c. Peptidoglycans
 - d. Chitin
5. A graphic representation of the growth of bacteria in a culture medium _____
 - a. Growth Factor
 - b. Growth Curve
 - c. Optimal Growth
 - d. Phase Curve
6. Which media is mainly used for microbial culture?
 - a. MS medium
 - b. MH medium
 - c. MD medium
 - d. BM medium
7. Method mainly used for sterilization of milk by heating and cooling process is called as
 - a. Filtration
 - b. Pasteurization
 - c. Radiation
 - d. Ultra sonication
8. A process of fractional sterilization with flowing stream _____
 - a. Pasteurization
 - b. Tyndallisation
 - c. Radiation
 - d. Ultra sonication
9. The causative organism for tuberculosis is _____
 - a. Streptococcus
 - b. Vibrio Chloreae
 - c. Mycobacterium tuberculae
 - d. Salmonella typhi
10. Which of the following diseases is not caused by bacteria?
 - a. AIDS
 - b. Tuberculosis
 - c. Typhoid
 - d. Leprosy

PART- B

Answer ALL questions

(5X6=30)

Answer should not exceed 400 words or two pages.

11. a. Give a note on discovery of microorganism.
(or)
11. b. Describe the process of germ theory of disease
12. a. Explain the structure of Flagella with labelled sketch.
(or)
12. b. Describe the characteristics of gram positive bacteria
- 13 a. Explain the concept of Growth curve.
(or)
- 13 b. Describe the preparation and characteristics of culture media.
14. a. Discuss about the process of Pasteurization.
(or)
- 14 b. Describe the mechanism of action of antimicrobial agents.
15. a. Discuss Tuberculosis as bacterial disease.
(or)
15. b. Describe the pathogenicity of Measles

PART -C

Answer ALL questions

(5X12=60)

(Answer should not exceed 800 words or two pages)

16. a. Illustrate the Light Microscopy and Phase contrast Microscopy
(or)
16. b. Differentiate between SEM and TEM
- 17 a. Explain the chemical composition and characteristics of Gram positive and Gram negative bacteria.
(or)
17. b. Discuss on the classification and morphology of Algae
18. a. Explain the methods of isolation of pure culture
(or)
18. b. Describe the detail on microbial culture cultivation and preservation
19. a. Give an account on the physical methods of Sterilization and Disinfection
(or)
19. b. Write a detailed note on chemical methods of Sterilization and Disinfection
20. a. Describe in brief on Acquired Immuno Deficiency Syndrome (AIDS)
(or)
20. b. Discuss in detail on antibiotics and antibiotic resistance.
