

**Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore-641 043**

**Master's Degree Examination – November 2017
III Semester**

**Class : II PG
Major : Zoology**

**Time: 3 hours
Max. Marks: 60**

12MZOC15 Microbiology

Part A

10 x 1/2 = 5

Choose the correct answer

1. What was the first shown to cause disease?
a. Polio b. Hepatitis c. Tobacco mosaic virus d. Potato blight
2. Who first described microorganism such as bacteria?
a. Louis paster b. Robert koch c. Fannie Hesse d. Anton vonuwenhock
3. is also known as heated blood agar or lysed blood agar
a. Chocolate agar b. Salt agar c. Mycoplasma agar d. Camp agar
4. Organism that cannot grow in artificial culture medium are known as
a. Obligate bacteria b. Obligate parasites c. Obligate fungi d. Mycobacterium
5. is also included in fermented milk products
a. Streptococcus b. Staphylococcus c. Enterococcus d. Diplococcus
6. The yohurt is made from
a. S. cremoris b. B. subtilis c. L. bulgaricus d. L. acidophilus
7. The Iodine used in Gram staining serves as a
a. Chelator b. Catalyst c. Mordant d. Cofactor
8. yeast used in ethonal production
a. A. fumigatus b. S. mikatae c. S. arboicola d. Saccharmyces cerevisiae
9. Which among the following is called as filamentous bacteria?
a. Actinomycetes b. Mycoplasma c. Spirochetes d. Vibrios
10. The cell theory is not applicable to
a. Bacteria b. Algae c. Virus d. Fungi

Part B

5 x 4 = 20

Answer ALL questions

Answer should not exceed 200 words or one page

11.a. Explain the scope of microbiology

(Or)

11.b. Give an short account of the structure of the bacteria with a suitable diagram

12.a. Explain the methods of isolation and maintenance of pure culture

(Or)

12.b. What are the factors affecting on microbial growth

13.a. Explain the fermentation of wine

(Or)

13.b. Write the short notes on milk borne diseases.

14.a. Explain the production of ethanol

(Or)

14.b. Give an short notes on large scale sewage treatment

15.a. Write short notes on Dermatophytosis

(Or)

15.b. Give brief account on AIDS

Part C

5 x 7 = 35

Answer ALL questions

Answer should not exceed 600 words or three pages

16.a. Give an account of the scope of essential microbiology

(Or)

16.b. Classify fungi with suitable examples

17.a. Explain the selective and differential types of culture media

(Or)

17.b. Describe in detail about physical and chemical methods of sterilization

18.a. Explain the biochemical changes and types of food spoilage? What is food poisoning?

(Or)

18.b. Give an account on classification of microorganism of milk

19.a. Write in detail about basic function and types of industrial microbiology

(Or)

19.b. Give an account on MPN and membrane filter techniques

20.a. Write a brief notes on five different fungal diseases with suitable examples

(Or)

20.b. Describe in detail meningitis and gonorrhoea
