

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

**Class : III UG**  
**Major : Botany**

**Time :3 hours**  
**Max. Marks: 100**

**15BBOC15- Microbiology**  
**Part-A**

**10 x 1=10**

**Choose the correct answer**

1. Sex pilus is also named as  
a. Plasmid    b. Vector    c. Conjugation tube    d. Transposons
2. Vibrios are  
a. Comma shaped    b. Spiral    c. Spherical    d. Packet shaped
3. The protein coat of a Virus is called as  
a. Casomeres    b. Capsid    c. Nucleo capsid    d. Prion
4. Yeast is unlike Bacteria in being  
a. Multi cellular    b. Unicellular    c. Eukaryotic    d. Prokaryotic
5. Rancidity is spoilage of  
a. Fat    b. Protein    c. Carbohydrate    d. Sugar
6. Which of the following is the acute diarrheal infection?  
a. Amoebiasis    b. Typhoid    c. Cholera    d. AIDS
7. The biological microorganism capable of fixing N<sub>2</sub>  
a. Rhizobium    b. Mucor    c. Rhizopus    d. Aspergillus
8. Azolla is used as a biofertilizer as it has  
a. Cyanobacteria    b. Rhizobium    c. Mycorrhiza    d. Vitamins
9. Science of Wine making is called as  
a. Aging    b. Fermentation    c. Viticulture    d. Onology
10. Fermi vaccine is for  
a. Cancer    b. Gram positive infections    c. Rabies    d. Gram negative infections

**Part B**

**5 X 6=30**

**Answer the following**

**Answer should not exceed 400 words or two pages**

- 11.a. Give an account on the morphology of Bacteria  
(or)
- 11.b. Write a brief account on Gram staining
- 12.a. Write about the morphology of Viruses  
(or)
12. b. Enumerate the economic importance of Bacteria
13. a. Discuss food poisoning.  
(or)
13. b. Explain treatment and control of Cholera
14. a. Give a short account on Biofertilizers.  
(or)
14. b. Write about soil microorganisms

15. a. Describe Ethyl alcohol fermentation .

(or)

15. b. Write an account on Rabies vaccines

**Part C**

**5 x 12=60**

**Answer the following**

**Answer should not exceed 800 words or four pages**

16. a. Explain the ultra structure of a Bacterium in detail

(or)

16. b. Write about any two types of sexual reproduction of Bacteria

17. a. Write an account on AIDS in detail.

(or)

17. b. Explain the morphology, multiplication and economic importance of Yeast

18. a. Give a detailed account on various food preservation methods

(or)

18. b. Write about the causal organism ,treatments and control methods of Typhoid.

19. a. Give a detailed account on biological nitrogen fixation

(or)

19. b. Write an essay on biopesticides

20. a. Explain about the industrial production of Wine

(or)

20. b. Write an essay on Penicillin and Streptomycin

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