



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Technology) 2020 Admission
I Semester Final Examination-November 2021

Pafe 1101

General Microbiology (2+1)

Marks: 50
Time: 2 hours

I Fill in the blanks

(10x1=10)

1. The spontaneous generation theory was disproved by _____.
2. The arrangement of cocci cells in a chain is called as _____.
3. The transformation was discovered by _____.
4. *Aspergillus* come under the class _____.
5. Protein coat of virus is called as _____.
6. The transfer of DNA via bacteriophage is called as _____.
7. The five-kingdom classification was proposed by _____.
8. The first antibiotics discovered from _____.
9. The cell wall of bacteria is made up of _____.
10. Anabaena is come under _____ groups of bacteria

II Write short notes on ANY FIVE of the following

(5x2=10)

1. Phototrophic and chemotrophic bacteria
2. Cell membrane
3. Growth curve
4. Passive diffusion
5. Mutagenesis
6. Pure culture
7. Pasteurization

III Answer ANY FIVE of the following

(5x4=20)

1. Antibiotics and their mode of action.
2. Contribution of Robert Koch and Winogradsky.
3. Simple staining and differential staining.
4. Explain the types of electron microscope.
5. Different structure outside to cell wall of bacteria.
6. Physical and chemical agents of microbial destruction.
7. Group translocation and active transport.

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Explain different recombination method in bacteria
2. Explain parts of microscope with a neat diagram
