



KERALA AGRICULTURAL UNIVERSITY
B. Tech. (Food Technology) 2025 Admission
I Semester Final Examination – February 2026

FSQ 1101

General Microbiology (2+1)

Marks: 50
Time: 2 hours

I Answer the following **(10x1=10)**

1. Who introduced antiseptic techniques in surgery using carbolic acid?

Fill in the blanks

2. The method of genetic exchange where bacterial DNA is transferred by a bacteriophage is called
3. The most commonly used method for short-term maintenance of bacterial cultures is
4. The ability of an organism to cause disease is referred to as
5. The study of fungi is known as
6. The total magnification of a microscope is calculated by multiplying the magnification of the lens and lens.
7. The loosely attached, unorganized extracellular polymeric substance found in bacteria is called
8. The arrangement where flagella are distributed all over the bacterial surface is called
9. The intracellular storage structures for nutrients such as phosphate, sulfur, or glycogen in bacteria are called
10. The process by which bacteria generate ATP using an electron transport chain and a proton gradient is called

II Write short notes on ANY FIVE of the following **(5x2=10)**

1. Transport media
2. Continuous culture
3. Plasmids
4. Flagella
5. Tyndallization
6. Simple staining
7. Luis Pasteur

III Answer ANY FIVE of the following **(5x4=20)**

1. What are gaseous disinfectants?
2. Explain Anaerobic culture methods
3. Write briefly on Autoclave.
4. What is IMViC test?
5. Explain Acid fast staining.
6. Write short notes on Bacterial spore.
7. Explain filtration.

IV Write an essay on ANY ONE of the following **(1x10=10)**

1. What are the common ingredients of culture media? How are they helpful for the growth of bacteria?
2. Which are the methods of Dry heat sterilization. Describe the sterilization by Hot Air Oven.
