

Q.19 Explain the difference between prokaryotic and eukaryotic cell.

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Q.20 Write a short note on serial dilution.

**1st Year / Food Technology**

Q.21 What are macro and micro nutrients?

**Subject:- Basic Microbiology**

Q.22 Discuss about filtration in brief.

Time : 3Hrs.

M.M. : 60

### **SECTION-A**

### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.23 What is the difference between gram +ve and gram -ve bacteria?

Q.1 Who is known as the father of microbiology?

Q.24 Write the factors which control the microbial growth.

- a) Robert Koch
- b) Joseph Lister

Q.25 Write about the history of microbiology.

- c) Leeuwenhock
- d) Edward Jenner

Q.2 Which type of bacteria is rod-shaped?

- a) Coccus
- b) Bascillus

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- c) Spirillum
- d) Vibrium

Q.3 A well defined nucleus is present in \_\_\_\_\_

- a) Prokaryotic cell
- b) Eukaryotic cell

- c) Both a and b
- d) All of them

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Q.4 Which factor influences the microbial growth?

- a) Temperature and pH
- b) Water activity
- c) Oxygen
- d) All of them

Q.5 The cell wall of fungi is made up of \_\_\_\_\_

- a) Chitin
- b) Polysaccharides
- c) Both a and b
- d) None of them

Q.6 The process of transfer of heat from one place to another place without heating the intervening medium is called \_\_\_\_\_

- a) Conduction
- b) Radiation
- c) Convection
- d) All of them

## SECTION-B

**Note:** Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 \_\_\_\_\_ is the father of immunology.

Q.8 Methylene blue is used in \_\_\_\_\_ staining.

Q.9 The scientist Alexander Fleming discovered the Penicillin antibiotic. (True/False)

Q.10 \_\_\_\_\_ shaped DNA is found in eukaryotic cells.

Q.11 The Thermophiles bacteria can best grow above 45°C temperature. (True/False)

Q.12 Which microorganism is used in bread making?

## SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Define staining.

Q.14 Define the microbiology.

Q.15 What is the difference between sterilization and pasteurization?

Q.16 Write the four phases of microbial growth.

Q.17 Classify the bacteria on the basis of number of flagella.

Q.18 Write a short note on kingdom fungi.