

1st Sem / Food Technology

Subject : Basic Microbiology

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Who is known as the father of modern Microbiology
a) Edward Jenner b) Leeuwenhock
c) Louis Pasteur d) Alexander Fleming
- Q.2 Which type of bacteria are spiral shaped ?
a) Bacillus b) Vibrium
c) Spirillum d) Coccus
- Q.3 The bacteria which can grow at the temperature of above 80°C are known as _____.
a) Mesophiles b) Thermophiles
c) Psychrophiles d) None of them
- Q.4 What is Microbiology ?
a) Study of Microscope
b) Study of microorganisms
c) Study of animals and their species
d) Both b and c

- Q.5 Alexander Fleming discovered -
a) Penicillin b) Protein
c) Both a and b d) None of them
- Q.6 Maximum growth of microbes occurs in -
a) Lag Phase b) Log Phase
c) Stationery Phase d) Death Phase

SECTION-B

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

- Q.7 Human cells are _____ cells.
- Q.8 The hydrogen ion concentration is called pH. (True/False)
- Q.9 The number of bacterial cells increases in lag phase. (True/False)
- Q.10 Yeast, which is used in bread making, is a unicellular organism. (True/False)
- Q.11 _____ is known as father of microbiology.
- Q.12 E.coli is a gram _____ bacteria.

SECTION-C

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

- Q.13 Write down the purpose of staining.

- Q.14 What is serial dilution ?
- Q.15 Define Sterilization.
- Q.16 Explain about radiation.
- Q.17 Write a short note on macro and micro nutrients.
- Q.18 Classify the bacteria on the basis of temperature requirement.
- Q.19 Write the characteristics of fungi.
- Q.20 What is the difference between yeast and mold ?
- Q.21 Explain four phase of bacterial growth.
- Q.22 Write a short note on kingdom protista.

SECTION-D

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

- Q.23 Write the classification of living organism in detail.
- Q.24 What is the difference between unicellular and multicellular organisms ?
- Q.25 Explain the mode of reproduction of bacteria in detail.