

### Section-D

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

- Q.23 Differentiate between prokaryotic and Eukaryotic cell.
- Q.24 Explain H Whittaker's five kingdom classification of living organism.
- Q.25 Describe the historical development in the field of microbiology in detail.

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### 1st Sem / (NEP) Food Technology Sub : Basic Microbiology

**Time : 3 Hrs.**

**M.M. : 60**

### SECTION-A

**Note:** Multiple Choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 The cell wall of fungi is made up of  
a) Peptidoglycan      b) Murine  
c) Chitin                d) Cellulose
- Q.2 Which among the following kingdoms were proposed by Whittaker?  
a) Monera  
b) Protista Fungi  
c) Plantae, Animalia  
d) Monera, Protista, Fungi, Plantae, Animalia
- Q.3 the term 'Fermentation' was coined by  
a) Louis Pasteur      b) Robert koch  
c) Ederberg and Tatum d) Griffith
- Q.4 Meosomes are also known as  
a) Mitochondria  
b) Endoplasmic reticulum

- c) Plasmids
- d) Chondroids

Q.5 Algae means

- a) Fresh water organisms
- b) Sea weeds
- c) Fresh water weeds
- d) None of these

Q.6 Temperature required for pasteurization is

- a) Above 100°C                      b) Below 100°C
- c) 110°C                              d) None of these

#### Section-B

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

- Q.7 Study of organisms that are not visible to naked eyes is called\_\_\_\_\_.
- Q.8 Father of modern microbiology is \_\_\_\_\_.
- Q.9 the basic structural and functional unit of a living organism is called\_\_\_\_\_.
- Q.10 A substance that adheres to a cell, giving the cell color is called\_\_\_\_\_.
- Q.11 The orderly increase in the quantity of all of the cellular components is known as\_\_\_\_\_.

Q.12 Rod shaped bacteria are known as\_\_\_\_\_.

#### Section-C

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

- Q.13 Why lysosomes are called suicide bags? Briefly explain.
- Q.14 Classify microorganisms on the basis of oxygen requirement with suitable example.
- Q.15 Why Mitochondria are called as power house of the cell? Briefly explain.
- Q.16 Briefly explain about reproduction of fungi.
- Q.17 classify bacteria on the basis of temperature requirements.
- Q.18 Differentiate between gram positive and gram negative bacteria with suitable example.
- Q.19 Briefly explain about staining and highlight the purpose of staining.
- Q.20 Briefly explain about growth requirements of fungi.
- Q.21 Briefly explain about the macronutrients required by the microorganisms for their growth.
- Q.22 Briefly explain about the various phases of microbial growth.