

### **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  $100^{\circ}\text{C}$       b) Below  $100^{\circ}\text{C}$   
c)  $110^{\circ}\text{C}$       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.