

- Q.4 Describe the functions of Mitochondria.
- Q.5 Write a short notes on microbial growth.
- Q.6 Write a note on mode of reproduction in bacteria.
- Q.7 Write short notes on :
- (a) Spread Plating
  - (b) Serial dilution technique.

No. of Printed Pages : 4

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**2nd Sem. / Food Technology**

**Subject : Basic Micro Biology**

Time : 3 Hrs.

M.M. : 100

**SECTION-A**

**Note:**Very Short Answer Type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) What is living System?
  - b) What is microbiology?
  - c) Define the term unicellular.
  - d) Define Cell organelles.
  - e) Define Cell.
  - f) What is growth curve?
  - g) What is pour plating?
  - h) What is the basic Principal of microscope?
  - i) What is the main function of Vacuole?
  - j) What is Simple Staining of bacteria?

- k) What is aseptic transfer of culture?
- l) Name any two gram $\oplus$  bacteria .
- m) Draw a labelled diagram of yeast.
- n) What do you mean by Eukaryotes?
- o) What is Capsule Staining?
- p) What is the shape of Gram $\ominus$  bacteria?
- q) What do you mean by shape of bacteria?
- r) Draw a structure of fungi.

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts (10x4=40)

- Q.2
- i) Describe the functions of ribosome.
  - ii) Differentiate between unicellular and multicellular organism.
  - iii) What do you mean by Streak Plating? Explain?
  - iv) What is Lyophilization?
  - v) Draw a labelled diagram of bacteria.

(2)

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- vi) Describe historical development in micro biology.
- vii) What are the various functions of Endoplasmic Reticulum?
- viii) Differentiate between Gram  $\oplus$  and Gram  $\ominus$  bacteria.
- ix) Describe mode of reproduction in mould.
- x) Write a short note on media preparation for fungi.
- xi) What is spore staining? Explain.
- xii) What are the advantages and disadvantages of yeast?
- xiii) Describe disadvantages of bacteria.
- xiv) What is Slant Method?
- xv) What is liquid nitrogen method?

### SECTION-C

**Note:** Long answer type questions. Attempt any three questions. (3x10=30)

- Q.3 Describe Whittaker's five kingdom concept.

(3)

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