SECTION-C

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

- Discuss in detail about whittakers five kingdom concept.
- Explain the various functions of mitochondria.
- Explain the mode of reproduction in bacteria.
- Write a short notes on various factors effecting microbial growth.
- Write short noted on:
 - slant method
 - Gram positive and negative bacteria.

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2nd Sem. / Food Tech.

Subject: Basic Microbiology

Time: 3 Hrs. M.M.: 100

SECTION-A

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

- Q.1 Define microbiology. a)
 - Define unicellular microorganism.
 - What is vacuole?
 - What is streak plating
 - Define cell organelles.
 - What is growth curve?
 - What do you mean by generation time?
 - Draw a levelled diagram of bacteria.
 - Define staining i)

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- j) What is culture.
- k) What do you mean by Eukaryotes?
- I) What is serial dilution technique.
- m) What do you mean by differential staining?
- n) What is capsule staining?
- o) What is spore staining?
- p) Explain about size of bacteria.
- q) Define cell.
- r) What is living system.

SECTION-B

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

- Q.2 i) Describe historical development in microbiology.
 - ii) What is pour plating? Explain.
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- iii) What are the different phases of growth curve?
- iv) What are prokaryotes and Eukaryotes.
- v) Differentiate between unicellular and multicellular organisms.
- vi) Classify unicellular organisms.
- vii) Explain the process of spread plating.
- viii) Explain the mode of reproduction in yeast.
- ix) Explain the shape and size of bacteria.
- x) What are the various function of ribosomes?
- xi) What is synchronous growth of micro organisms.
- xii) What are the various importance of yeast.
- xiii) Describe the function of Endoplasmic Reticulum.
- xiv) What is lyophilization? Explain.
- xv) What are the disadvantages of bacteria?
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