Roll No. Total Pages: 3

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K-17/2111

GENERAL MICROBIOLOGY

Paper-1102T

Semester-I

Time Allowed: 3 Hours [Maximum Marks: 54

Note: The candidates are required to attempt two questions each from Sections A and B carrying 8 marks each and the entire Section C consisting of 11 short answer type questions carrying 2 marks each.

SECTION—A

Explain the Compound Microscope with well labelled diagram. 8

What are Bacteria? Draw well labelled diagram of Bacteria and explain its Morphology. 8

What is Metabolism? Explain the Energy production by Aerobic processes. 8

4. Explain the Growth curve of Bacteria. 8

SECTION—B

Give detailed account of Food borne diseases with examples. 8

What are Food contaminants? How are they dangerous to our Health? 8

Expand HACCP. Give its benefits and Principles.

8

What are Biosensors? Give their applications. 8

SECTION—C

Write short notes on the following: $11 \times 2 = 22$

2

Simple Microscope. (i)

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- (ii) Pure Culture.
- (iii) Plasma membrane.
- (iv) Anaerobic digestion.
- (v) Lag phase.
- (vi) Culture Media.
- (vii) Mycotoxins.
- (viii) Anti-nutrition factors.
- (ix) Heavy metal detecting Biosensors.
- (x) Submerged Culture.
- (xi) Nutrient Agar.