

Roll No. ....

Total Pages : 4

**12995/N****K-13/2111****INTRODUCTORY MICROBIOLOGY**

Paper-1103T

Semester-I

Time Allowed : 3 Hours] [Maximum Marks : 75

**Note :** The candidates are required to attempt **two** questions each from Sections A and B carrying 15 marks each and the entire Section C consisting of 10 short answer type questions carrying 1½ marks each.

**SECTION—A**

1. Write notes on the following : 15
- (a) Contributions of Joseph Lister.

(b) Dark field Microscopy.

(c) Binomial nomenclature.

2. Write notes on the following : 15

(a) Differentiate between Yeasts and Molds with two applications of each type.

(b) Bergey's manual.

3. Describe the structure, classification and replication of Viruses. 15

4. Write notes on the following : 15

(a) Differentiate between Selective and Differential media.

(b) Autoclaving.

(c) Serial dilution plate technique for isolation of Microorganisms from Soil.

**SECTION—B**

5. Write notes on the following : 15

(a) Gene function.

(b) VAM.

6. Write notes on the following : 15

(a) Microbial interactions in Rhizosphere.

(b) Normal flora of Human digestive tract.

7. Write notes on the following : 15

(a) Outdoor and Indoor aerosphere.

(b) Botulism.

8. Describe the Industrial applications of Microbes  
in agriculture and medicine. 15

**SECTION—C**

9. Write short note on the following :  $10 \times 1\frac{1}{2} = 15$

(i) Pasteurization.

(ii) Smear.

(iii) Bacillus.

(iv) Cyanobacteria.

(v) Growth curve.

(vi) Culture.

(vii) Commensalism.

(viii) Food intoxications.

(ix) Collego.

(x) Aflatoxins.