

Roll No.

Total Pages : 3

7301/N

J-19/2110

INTRODUCTORY MICROBIOLOGY

Paper-III

Semester-I

Time allowed : 3 Hours] [Maximum Marks : 75

Note : The candidate are required to attempt **two** questions each from Section A and Section B carrying **15** marks each and entire section C consisting of **10** short type questions of **1.5** marks each.

SECTION-A

1. Give a brief account on various types of microscopy and its applications in medical institutions? 15
2. Discuss briefly about biochemical and molecular techniques used in taxonomy? 15

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3. Write a note on structure and replication of important bacterial, animal and plant viruses? 15
4. How will you preserve and maintain different cultures for microorganism? 15

SECTION-B

5. Explain briefly about utilisation of energy and biosynthesis for microbial metabolism? 15
6. Discuss various types of microbial interactions? 15
7. What do you know about the distribution and occurrence of flora in Humans? 15
8. Describe bacterial, protozoal and fungal pathogenesis in Humans? 15

SECTION-C

9. Define the following : 10×1½=15
 - (i) Prokaryotes
 - (ii) Replication

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- (iii) Growth
- (iv) Culture
- (v) Parasitism
- (vi) Anaerobes
- (vii) Sterilization
- (viii) Cyanobacteria
- (ix) Isolation
- (x) Classification