

Roll No. ....

Total Pages : 3

**7318/N**

**J-23/2110**

**GENERAL MICROBIOLOGY**

Paper-II

Semester-I

Time allowed : 3 Hours] [Maximum Marks : 54

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

**SECTION-A**

1. What is role of microbiology in upliftment of our Society? 8
2. What are Bacteria? Give detailed structure of its plasma membrane along with its functions. 8

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3. How photosynthesis helps in production of energy? 8
4. Draw growth curve for a microbial culture. How environmental factors affect growth curve? 8

**SECTION-B**

5. What are food borne diseases ? Give details of microbial causative agents. 8
6. What are food contaminants ? Explain naturally occurring toxicants in animals. 8
7. Explain HACCP ? What is the need for such agency? 8
8. What are Biosensors? Explain all the types. 8

**SECTION-C**

9. Write short notes : 11×2=22
  - (i) Pure culture
  - (ii) Simple microscope

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- (iii) Cytoplasmic inclusion
- (iv) Aerobic metabolism
- (v) Culture media
- (vi) Log phase
- (vii) Submerged culture
- (viii) Mycotoxin
- (ix) Ants nutritional factors
- (x) Biosensor applications
- (xi) Types of streaking for isolation of Pure culture.