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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. Hons. (Microbiology) (Sem.-1)

**INTRODUCTION TO MICROBIOLOGY**

Subject Code : BSMB-101-19

M.Code : 78979

Date of Examination : 10-01-2023

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A**

**1. Write briefly :**

- a) Enlist the contributions of R. Koch in microbiology.
- b) Write two examples for gram negative bacteria.
- c) What is dark field microscopy?
- d) Define sporulation process.
- e) What is nutritional biodiversity?
- f) Classify virus.
- g) What is diauxic growth?
- h) Name physical agents used to kill the microbes.
- i) Define pasteurization process.
- j) What is fermentation?

### **SECTION-B**

2. Elaborate about the microbial interaction like antibiosis.
3. Discuss the aerobic and anaerobic fermentation.
4. What is generation time and growth of bacteria?
5. Difference between gram positive and gram-negative bacteria.
6. Write down the principle of fluorescent microscopy.

### **SECTION-C**

7. Write the contribution of various scientists in the history of microbiology.
8. Classify the fungi and the role of nitrogen fixing microbe in agriculture.
9. Elaborate about the feature of the microbes in extreme environment like high temperature and high/low pH.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**