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Total No. of Pages: 02

Total No. of Questions: 09

Bachelor of Science (Bio Technology)(Sem. – 2)

INTRODUCTION TO MICROBIOLOGY

Subject Code: BSBT-202-18

M Code: 75873

Date of Examination : 15-12-22

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) What is antibiosis?
 - b) Give example any one Gram positive and Gram negative bacterium.
 - c) What is synchronous growth?
 - d) What is tyndallization? Who coined the term?
 - e) What is the difference between an obligate and facultative aerobes?
 - f) Define magnification of a microscope.
 - g) What is disinfection? Give an example.
 - h) Which sterilization technique will be used for:
 - i) Nutrient medium
 - ii) Hormones
 - i) Give the name(s) of nitrogen fixing bacteria.
 - j) What is the difference between non-specific and specific immune response?

SECTION-B

2. Briefly describe about any one:
 - a) Electron microscopy
 - b) Fluorescent microscopy
3. What is sterilization? Give different methods of sterilization.
4. Discuss Koch's postulates.
5. Briefly discuss about normal microflora of the human body and its significance.
6. What are the different methods for bacterial classification?

SECTION-C

7. Discuss about the nutritional diversity of microorganism.
8. Write a short note on any two:
 - a) Inflammation
 - b) Discovery of antibiotics
 - c) Cell wall structure
 - d) Fermentation
9. Discuss about the different microbes and the diseases related to them.

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