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M. Sc. Microbiology (Semester – 1st)

GENERAL MICROBIOLOGY

Subject Code : MMBLS1-101

Paper ID: [21221401]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(4 marks each)

- Q1. Write a note of on Louis Pasteur
- Q2. Write about bacterial growth curve
- Q3. Difference between prokaryotes and eukaryotes
- Q4. Define anaerobes and write its applications in Microbiology

Section – B

(8 marks each)

- Q5. Write a note on Robert Koch and elaborate the Koch's postulates
- Q6. Write a note of Flagella and enumerate its uses along with diagram
- Q7. Note on bacteriophage and write its applications
- Q8. Elaborate about phase contrast microscopy and its applications

Section – C

(10 marks each)

- Q9. Write a note on cell wall. Elaborate the difference between gram positive and gram negative cell wall along with labeled diagrams
- Q10. Draw a well labeled diagram of Electron Microscope and discuss briefly about its working and principle along with its applications in Microbiology
- Q11. Elaborate various antimicrobials and discuss various mechanism of action and properties of each class of antimicrobials.