

**Total No. of Questions: [09]**

**Total No. of Printed Pages: [1]**

**B.Sc. (MLS) (Semester – 1<sup>st</sup>)**

**MICROBIOLOGY**

**Subject Code: BMLS1103**

**Paper ID: [130503]**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 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**

**(2 marks each)**

Q1. Attempt the following:

- a) What is spare staining.
- b) What is Antisepsis
- c) Parts of Microscope
- d) What is Louis Pasteur
- e) Enlist the use of Hot air oven
- f) Needles are discarded in which coloured bins
- g) Define sterilisation
- h) Bacterial spore
- i) Name various filter methods of sterilization
- j) Selective media

**Section – B**

**(5 marks each)**

- Q2. Write a note on contributions of Robert Koch and write about Koch's postulates
- Q3. Define disinfectants and what are chemical disinfectants
- Q4. Explain the principal & uses of Electron Microscopy
- Q5. What is anerobiosis and write various methods of anaerobic cultures
- Q6. Name different culture methods used for various bacteria

**Section – C**

**(10 marks each)**

- Q7. Write a note on Bacterial growth curve
- Q8. What are the different methods of sterilization and write a note on autoclave
- Q9. Elaborate recent Biomedical waste guidelines