

Roll No.....

Total No. of Printed Pages: [01]

Total No. of Questions: [09]

B.Sc. (MLS) (Semester – 3rd)
APPLIED BACTERIOLOGY
Subject Code: BMLS1316
Paper ID: [130511]

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 sepsis?
- b) What are nosocomial infections?
- c) What do you mean by MIC of an antibiotic?
- d) What is mastitis? What is its causative agent?
- e) What type of infections are caused by *Helicobacter pylori*?
- f) Which microbial population is naturally associated with raw vegetables?
- g) Define serovars.
- h) What is β -lactamase enzyme?
- i) Name some common genital tract infections.
- j) What are coliforms?

Section – B

(5 marks each)

- Q2. How is potability of water tested?
- Q3. What are the main causes of contamination of canned food products?
- Q4. Describe the methods for preservation of microbial cultures.
- Q5. What is antibiotic sensitivity assay? Explain.
- Q6. Write a note on infections of respiratory tract.

Section – C

(10 marks each)

- Q7. What is food poisoning? Explain the causes, symptoms and treatment.
- Q8. (a) What tests are conducted to investigate bacteriological quality of milk?
(b) How are samples of air collected and processed for analysis?
- Q9. What is phage typing? What is it used for? How is it performed?