

Exam. Code : 103206

Subject Code : 1346

B.A./B.Sc. 6th Semester

ZOOLOGY

Paper : Zoo-VI B, Opt. (i)

(Medical Laboratory Technology)

Time Allowed—3 Hours]

[Maximum Marks—35

Note :—(1) Attempt total **five** questions.

(2) Section A (Q. 1) is compulsory.

(3) Attempt **four** questions selecting **one** from each unit of Section-B.

(4) **All** questions carry equal marks (7 marks each).

SECTION—A

1. Attempt **all** the short questions :

(a) Fire extinguisher is must in each laboratory, comment.

(b) Write the composition of diluting fluid used during determination of total leucocyte count.

(c) Differentiate the terms sterilization and disinfection.

(d) Write the principle of spectrophotometry.

(e) What is the clinical significance of ketone bodies in urine ?

- (f) How Bouin's fixative is prepared ?
- (g) What is lyophilization ? 1×7=7

SECTION—B

UNIT—I

2. (a) Write about the various precautions to be taken for the avoidance of accidents in laboratory. 5
- (b) How First Aid can be given in case of laboratory accidents ? 2
3. Describe the principle of Microscopy, explain the functioning of its various parts and its mechanical adjustments. 7

UNIT—II

4. What are different types of methods being used for the preservation of various clinical samples ? 7
5. (a) Describe the procedure to calculate platelet count in blood. 5
- (b) In brief write precautions while doing the autoclaving. 2

UNIT—III

6. (a) Describe the procedure for staining of gram negative bacteria, also write the precautions to be taken while performing this experiment. 5
- (b) How filtration is helpful in sterilization ? 2

7. (a) Demonstrate the method for culturing of anaerobic bacteria in laboratory. 5
- (b) Write a note on routine and synthetic laboratory media. 2

UNIT—IV

8. Give a detailed account on the techniques being used in routine for staining of animal tissues. 7
9. (a) Give the principle and methodology for determination of amylase activity in saliva. 5
- (b) What is the difference between the fasting sugar and random sugar, write their average range of values in blood. 2