

B.A./B.Sc. - 6th Semester
(2721)

Paper : Zoology Zoo-VI B Opt(i) Medical Laboratory Technology

Time allowed: 2 hrs.

Max. Marks: 35

Note: There are EIGHT questions of equal marks. Candidates are required to attempt any FOUR questions.

SECTION - A

- Q. 1 a) Discuss about the principle and working of Ouchterlony immunodiffusion test $(6\frac{1}{4})$
 b) Differentiate between agglutination and precipitation $(2\frac{1}{2})$
- Q. 2 Write the principle and working of the following techniques:
 i) Spectrophotometry $(8\frac{3}{4})$
 ii) Autoclave

SECTION - B

- Q. 3 What do you mean by the term preservation of samples, why this is required, give various methods which are commonly used for the of preservations of different types of clinical samples $(8\frac{3}{4})$
- Q. 4 What is difference between the terms TLC and DLC, describe the procedure for their determination from blood samples $(8\frac{3}{4})$

SECTION - C

- Q. 5 Differentiate between the following terms by giving proper examples:
 a) Anaerobic and aerobic culture $(8\frac{3}{4})$
 b) Sterilization and disinfection
- Q. 6 What do you mean by antibiotic sensitivity, how it is tested in case of bacterial infections, discuss $(8\frac{3}{4})$

SECTION - D

- Q. 7 Give the composition of Haematoxyline and Eosin stains, describe the procedure for counter staining technique of the animal tissues by using these stains $(8\frac{3}{4})$
- Q. 8 a) Write the principle and procedure for determination of cholesterol level in the given blood sample $(6\frac{1}{4})$
 b) What are bile salts, how does the higher levels of bile salts in urine signify clinically? $(2\frac{1}{2})$
