

Exam. Code : 103206
Subject Code : 1410

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

Paper—ZOO-VI, Opt. (i)

(Medical Zoology & Medical Laboratory)

Time Allowed—3 Hours] [Maximum Marks—75

Note :— In all, **FIVE** questions are to be attempted. Question No. 1 is compulsory. The remaining **FOUR** questions are to be attempted from Sections I, II, III and IV selecting at least **ONE** from each section.

1. Give short answers for the following :—
- Prophylaxis
 - Dengue
 - Cell mediated immune response
 - Spirochaetes
 - Autoclaving
 - Laboratory safety rules
 - Gram stain
 - Feulgen reagents
 - Ketone bodies
 - Fixatives and their importance in histopathology.

1½×10.

SECTION—I

2. Give an account of life history of *Fasciolopsis* and describe its mode of infection and pathogenicity. 15
3. Describe the life cycle of arthropod vector of Malaria. What measures should be taken to control it? 15

SECTION—II

4. Give an account of pathogenic bacteria and viruses. 15
5. (a) Describe various human defence mechanisms.
(b) Discuss the importance of vaccines. 8+7

SECTION—III

6. Give an account of Centrifugation and Spectrophotometry and discuss their importance. 15
7. (a) Describe different types of culture media.
(b) Give an account of bacterial culture. 7+8

SECTION—IV

8. Describe the methods to collect blood and discuss various parameters of haematological analysis. 15
9. Give an account of biochemical techniques to estimate bile salts, bile pigments and enzymes. 15