

(i) Printed Pages: 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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B.A./B.Sc. (General) 6th Semester

1059

ZOOLOGY

**Paper—II : Applied Zoology—II : Opt. (i) Medical Zoology
and Medical Laboratory Technology—II (ZOO-602A)**

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Question No. 1 is compulsory. Attempt *one* question each from Units I, II, III, and IV. Draw well labelled diagrams wherever necessary.

1. Briefly explain the following :

- (a) Cytokines
- (b) Oposonization
- (c) ELISA Test
- (d) J-chains
- (e) Colorimeter
- (f) Venipuncture
- (g) Gram Staining
- (h) Nutrient Broth.

8×1=8

UNIT—I

- 2. (a) Discuss the role of interferons and complement system in Human Defence Mechanisms. 4
- (b) Explain the differences between Active and Passive Immunity. 3
- 3. Discuss the Lymphocyte traffic in body. Give its immunological significance. 7

UNIT—II

4. (a) Describe the structure of Macroglobulin with the help of suitable diagram. 4
- (b) Differentiate between various classes of Antibody Molecule. 3
5. Write short notes on :
- (a) Antigen-Antibody interactions 4
- (b) Second generation vaccines. 3

UNIT—III

6. (a) Compare and contrast between Compound Microscope and Electron Microscope. 5
- (b) Give the utility of SEM and TEM. 2
7. Write an account about Ramanowsky's stains and its commonly used modifications. 7

UNIT—IV

8. Explain in detail :
- (a) Estimation of Blood Sugar 3½
- (b) Antibiotic sensitivity in Bacteria. 3½
9. Give the principle and methodology for Periodic Acid Schiff test. 7