

(i) Printed Pages: 2

Roll No.

(ii) Questions : 9

Sub. Code :

0	5	5	3
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Exam. Code :

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

(2042)

ZOOLOGY

Paper—II

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

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt *five* questions in all, including question no. I which is compulsory and selecting **one** question from each Unit. Draw well labelled diagrams wherever required.

I. Explain briefly :

- (a) Epitope
- (b) Second generation vaccines
- (c) CD-8 cells
- (d) ELISA
- (e) Lymphocyte traffic
- (f) Electromagnetic lenses
- (g) Feulgen reaction
- (h) Centrifugation.

8×1

UNIT—I

- II. (a) Differentiate between Non-specific and Specific Defence Mechanisms.
(b) State the properties of Specific Defence Mechanisms. 3,4
- III. Discuss in detail the physical and chemical properties of Antigens. 7

UNIT—II

- IV. (a) Differentiate between IgM and IgG.
(b) Draw well labelled diagrams of Antibody Molecules-IgG and IgA. 4,3
- V. Explain the methodology of Radio-immunoassay. Give its clinical significance. 7

UNIT—III

- VI. (a) Explain the merits and demerits of Anticoagulants.
(b) Give the structure and working of Electron Microscope. 3,4
- VII. Write short notes on :
(a) Venous and capillary collection of blood
(b) Precautions during sample collection. 5,2

UNIT—IV

- VIII. Explain the various types of Bacterial Culture Media along with their merits and demerits. 7
- IX. (a) Give the procedure to estimate blood sugar.
(b) Discuss the principle and methodology for staining of carbohydrates in tissues. 3,4