

17/5/2023 (Morning)

(i) Printed Pages : 2 Roll No.

(ii) Questions : 9 Sub. Code :

0	5	5	3
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Exam. Code :

0	0	0	6
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B.A./B.Sc. (General) 6th Semester
(2053)

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) Plasma cell
- (b) Haptens
- (c) Allergen
- (d) ELISA
- (e) 2nd Generation Vaccines
- (f) Autoclave
- (g) Venous blood Collection
- (h) Periodic Acid Schiff test.

8×1=8

UNIT—I

- II. (a) Explain the properties of Specific defence and Mechanism.
(b) Differentiate between Humoral and Cell Mediated Immune response. 3,4
- III. What are Antigens ? Give their Physical and Chemical properties. 7

UNIT—II

- IV. Explain the methodology of ELISA technique. Give its Clinical Significance. 7
- V. (a) Differentiate between : ELISA and RSA
(b) Draw well labelled diagrams for antibody IgM, IgA and IgG. 7

UNIT—III

- VI. Explain the following :—
(a) Spectrophotometry
(b) Romanowsky's stains. 4,3
- VII. Discuss the components of Electron Microscope. Draw a well labelled diagram also. 7

UNIT—IV

- VIII. (a) Explain the method for estimation of Blood Urea.
(b) Discuss the role of fixative in laboratory investigations and microscopic studies. 4,3
- IX. Write short notes on :
(a) Feulgen Reaction
(b) AFB stain. 4,3