

Fourth Semester B. Sc. Examination

ZOOLOGY

Paper – II

(Molecular Biology and Immunology)

Time : Three Hours]

[Max. Marks : 50

N. B : (1) All questions are compulsory.
 (2) All questions carry equal marks.
 (3) Illustrate your answer with suitable diagrams.

1. Describe Watson and Crick model of DNA. 10

OR

Write notes on :—

(A) Griffith's Experiment. 5
 (B) Types of RNA. 5
 2. Describe the process of protein synthesis. 10

OR

Write notes on :—

(A) Characteristics of genetic code. 5

3. Explain Antigen-Antibody interaction in detail. 10

OR

Write notes on :—

(A) Functions of Antibody. 5
 (B) Spleen. 5
 4. Describe types of cell mediated (T-Cell) immune responses. 10

OR

Write notes on :—

(A) Alternative pathway. 5
 (B) AIDS. 5
 5. Write **4-5** lines on the followings. (Any **10**) :—
 (i) B-DNA.
 (ii) Intron
 (iii) Conjugation in Bacteria
 (iv) Wobble hypothesis.
 (v) RNA polymerase.

- (vi) Repressor protein.
- (vii) IgM.
- (viii) Lymph node.
- (ix) Innate immunity
- (x) Lectin
- (xi) Cytokines
- (xii) Hashimoto Disease.

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