

(i) Printed Pages: 3

Roll No.

(ii) Questions : 9

Sub. Code :

0	5	5	7
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Exam. Code :

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

(2054)

BIO-CHEMISTRY

Paper-B : Applied Bio-Chemistry-II

Time Allowed : Three Hours]

[Maximum Marks : 45

Note :—Attempt **FIVE** questions in all, including Question No. 1 which is compulsory and selecting **ONE** question from each Unit. Students are advised to solve questions in orderly manner and clearly mention its number and its sub-parts.

1. Give answers of the following :

- (1) Give the one function of antigen in immune system.
- (2) What are antibodies ?
- (3) Write the names of two components of innate immunity.
- (4) Write two functions of ELISA.
- (5) What are the two types of immunity ?
- (6) Write the functions of Hemoglobin.

(7) What is neuron ?

(8) Give names of two muscle proteins.

(9) What are the Synapses ?

9×1=9

UNIT—I

2. (a) Describe in brief about the non-specific immunity in human.

(b) Write about the Major Histocompatibility Molecules (MHC) and its functions. 5,4

3. (a) What is complement system ? Write about the different roles of complement system.

(b) Describe in brief about the Immunoblotting technique. 5,4

UNIT—II

4. (a) Briefly describe the composition of blood.

(b) What is buffer system ? Write about the acid-base equilibrium. 5,4

5. (a) Explain in brief, how acid-base balance is maintained in lungs.

(b) Briefly describe about the various types of anti-coagulants in human. 5,4

UNIT—III

6. (a) Write about the structure of muscle cell.

(b) Make suitable diagram of cardiac muscle as seen by electron microscope. 5,4

7. (a) Give the sequence of events involved in excitation contraction coupling.
- (b) Write the role of protein in muscle contraction. 5,4

UNIT—IV

8. (a) Write in brief about the mechanism of nerve impulse.
- (b) Classify the functions of neuron. 4,5
9. (a) What is the synaptic potential ?
- (b) Briefly write about the Neurotransmitters. 5,4