

2056
B.A./B.Sc. (General) Sixth Semester
Bio-Chemistry
Paper – B: Applied Bio-Chemistry – II

Time allowed: 3 Hours

Max. Marks: 45

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

1. Give answer of the following:-

- a) Give the function of spleen in immune system.
- b) What are haptens?
- c) Write the name of two components of innate immunity?
- d) Write two functions of biological buffers.
- e) Write the name of two type of immunity.
- f) Write the functions of actin protein.
- g) What is neuron?
- h) Give name of two muscle proteins.
- i) What is the RIA?

(9x1)

UNIT - I

2. (a) Write about three major components of non-specific immunity in human.

(b) Write about the various types of Immunoglobulins and their functions. (5, 4)

3. (a) What is ELISA? Write applications of ELISA in immunology.

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

UNIT - II

4. (a) Briefly describe the various functions of blood.

(b) What is the blood clotting? Give the name of various anti-clotting agents. (5, 4)

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

(b) Write in brief about the various types of anemia in human. (5, 4)

P.T.O.

(2)

UNIT - III

6. (a) Write about the schematic representation of the thin filament of muscle?
(b) Make suitable diagram of skeleton muscle as seen by electron microscope. (5, 4)
7. (a) Write the sequence of events involved in muscle contraction.
(b) Write the role calcium in muscle contraction. (5, 4)

UNIT - IV

8. (a) Write the structure of nerve cell.
(b) Describe in brief about the nerve impulse transmission. (4, 5)
9. (a) What is the Glia? Write in brief about the astroglia.
(b) Write in brief about the Neurotransmitters and their roles. (5, 4)

x-x-x