Roll No. : .....

Total No. of Questions : **11**] [Total No. of Printed Pages : **3**

BPP–1075

M.Sc. (Previous) Examination, 2022

ZOOLOGY

Paper - II

(Biological Chemistry, Immunology and Physiology)

*Time : **3** Hours*] [*Maximum Marks : **75***

Section–A **(Marks : 2 × 10 = 20)**

Note :– Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section–B **(Marks : 5 × 5 = 25)**

Note :– Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section–C **(Marks : 10 × 3 = 30)**

Note :– Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section–A

1. (i) What is the end product of arachidonic acid metabolism ?

   (ii) What is the role of an allosteric inhibitor ?

(iii) What is the difference between Antigen and Hapten ?

(iv) Which harmone is responsible for ovulation ?

(v) What is the peptidoglycan ?

(vi) What is the function of pyruvate dehydrogenase ?

(vii) Write the name of disease caused by cestode.

(viii) What is Hypersensitivity ?

(ix) Write the name of excitatory neurotransmitter.

(x) What motor protein is responsible for the movement of muscle ?

Section–B

2. Write classification of lipid with example.

Or

Describe biomedical importance of protein.

3. Draw basic structure of immunoglobulin.

Or

What is the function of major histocompatibility complex ?

4. Describe the enzymatic digestion of food in intestine.

Or

Give a detailed account of blood clotting mechanism.

5. Describe the mechanism of muscle contraction.

Or

Explain the mechanism of nerve impulse conduction.

6. Discuss the structure and function of internal ear.

Or

How do we hear sound ? Explain mechanism.

Section–C

7. Write a detailed note on Inborn Error of Metabolism.

8. Describe the mechanism of cell mediated immunity.

9. Describe the role of hormone in control of process of digestion of food.

10. Describe the structure and function of thyroid gland and its hormone.

11. Describe the architecture of nephron with suitable diagram.