

2012
B.A./B.Sc. (General) Third Semester
Zoology
Paper - II: Biochemistry and Physiology - I (ZOO-302)

Time allowed: 3 Hours

Max. Marks: 36

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit. Draw diagrams wherever necessary.

x-x-x

I. Explain the following briefly:-

- a) Phospholipids
- b) Cardiac Output
- c) Microcirculation
- d) Oxygen Dissociation curve
- e) Glycogenolysis
- f) Glycoproteins
- g) Rh factor
- h) Intracellular Digestion

(8x1)

UNIT - I

II. Explain the classification, structure and functions carbohydrates in detail. (7)

III. Describe the classification, structure and functions of Lipids. (7)

UNIT - II

IV. a) Discuss about the Embden-Meyerhof-Parnas (EMP) pathway in detail.

b) Discuss the significance of the hexose monophosphate shunt. (4+3)

V. What are enzymes? Describe the nature of enzyme, their classification and functions. (7)

UNIT - III

VI. Describe the transport of oxygen and Carbon dioxide in detail. (7)

VII. Write short notes on:-

- a) Emulsification
- b) Symbiotic Digestion

(4+3)
P.T.O.

(2)

UNIT - IV

VIII. a) Describe the complete process of Blood Clotting along with all clotting factors.

b) Write an account on Blood Pressure (4+3)

IX. Write short notes on:-

a) Cardiac Cycle

b) Blood Groups (4+3)

x-x-x