

(i) Printed Pages: 2

Roll No.

(ii) Questions : 9

Sub. Code :

0	2	5	6
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Exam. Code :

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B.A./B.Sc. (General) 3rd Semester

(2122)

ZOOLOGY

Paper—II : Biochemistry & Physiology - I (ZOO-302)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt *five* questions in all including Question No.I, which is compulsory and selecting **one** question from each unit.

I. Describe the following :

- (a) snRNA
- (b) Zwitter ion
- (c) Isozymes
- (d) Site of glycolysis and Kreb's cycle in cell
- (e) Apolipoproteins
- (f) Dead sapce
- (g) Monocytes
- (h) Purkinje fibres.

1×8

UNIT—I

- II. What are Conjugated Lipids ? Discuss their types, structure, and function. 7
- III. (a) Differentiate between homo and heteropolysaccharides with suitable example of each. 4
- (b) What is the difference between anomers and isomers ? Illustrate with suitable example. 3

UNIT—II

- IV. What are Allosteric Enzymes ? Discuss the mechanism of enzyme action. 2+5
- V. What is Pentose Phosphate Pathway ? Describe in detail the process and its regulation. 7

UNIT—III

- VI. Differentiate extra and intra-cellular digestion. Write note on symbiotic digestion. 5+2
- VII. (a) What is Pulmonary Ventilation ? Discuss the laws regulating it. 5
- (b) Mention the various forms in which CO_2 is transported in blood. 2

UNIT—IV

- VIII. Discuss in detail the Coagulation Cascade. 7
- IX. (a) What is Cardiac Cycle ? Describe the different stages. 4
- (b) What is Blood Pressure ? How is it related to resistance ? 3