

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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

1125

ZOOLOGY

Paper-B : Biochemistry and Animal Physiology-I (ZOO-302)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. Question No. 1 is compulsory.

1. (i) Isoenzymes
- (ii) Biological Oxidation
- (iii) Emulsification
- (iv) Bohr effect
- (v) Cardiac Output
- (vi) Anemia
- (vii) Defence Protein
- (viii) Essential Fatty Acids.

1×8

UNIT-I

2. (a) Classify carbohydrates and give suitable examples for each type.
- (b) What are Nucleosides ?

5+2

3. Discuss primary, secondary, tertiary and quaternary structure of proteins giving suitable example. 7

UNIT-II

4. What are Allosteric Enzymes ? Discuss the mechanism of enzyme action. 7
5. (a) What is Glycolysis ? Describe glycolysis in a tabulated form.
(b) What is Glucogenesis ? 5+2

UNIT-III

6. (a) Describe the physiology of digestion in different parts of digestive system.
(b) Differentiate between extracellular and intracellular digestion. 5+2
7. Describe the transport of O_2 and CO_2 in detail. 7

UNIT-IV

8. (a) Describe the mechanism of blood clotting,
(b) Write a note on ECG and its significance. 5+2
9. Describe the origin and regulation of heart beat in detail. 7