

(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

1128

ZOOLOGY

Paper : (II : Biochemistry and Physiology-I (ZOO-302))

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :- Question No. 1 is compulsory. Attempt **one** question from each Unit. In all, attempt **five** questions.

1. Define the following :—

- (i) Glycosidic bond
- (ii) Essential Fatty Acids
- (iii) Role of UDPG Pyrophosphorylase in carbohydrate metabolism.
- (iv) Haldane effect
- (v) Name the bile salts
- (vi) Heartburn
- (vii) Positive waves in ECG
- (viii) Agglutinogens.

1×8=8

UNIT—I

2. Explain the structural and functional classification of polysaccharides in detail.

4+3=7

3. Write in detail :—

- (a) Non coding DNA
- (b) Differentiate fibrous and globular proteins.

3+4=7

UNIT—II

- | | | |
|----|--|---|
| 4. | Give a detailed account of Kreb's cycle. | 7 |
| 5. | (a) Explain the "Induced fit" hypothesis of enzyme action. | 3 |
| | (b) Explain the different ways of naming enzymes. | 4 |

Unit—III

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|----|---|---|
| 6. | Explain the process of gaseous exchange at long alveoli and tissue level. | 7 |
| 7. | (a) Write a note on symbiotic digestion. | 3 |
| | (b) Explain the Intestinal phase of protein digestion. | 4 |

UNIT—IV

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|----|---|-------|
| 8. | Explain the origin , conduction and regulation of heart beat. | 3+2+2 |
| 9. | (a) Write a note on the composition of blood plasma. | |
| | (b) Explain the mechanism of blood clotting. | 3+4 |