

(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
(1129)

ZOOLOGY

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

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— (1) Question No. 1 is compulsory.

(2) Attempt **ONE** question from each of **Four Units**.

(3) In all, attempt **FIVE** questions.

1. Describe the following :

(i) Haemoglobin

(ii) Significance of Krebs Cycle

(iii) Types of Nucleic Acid

(iv) Apoenzyme

(v) Oxygen Dissociation Curve

(vi) Cholecystokinin

(vii) Bundle of His

(viii) Role of Calcium in Blood Clotting.

1×8=8

UNIT-I

2. Give Classification and Functions of Fats. 4,3=7
3. (a) Phosphodiester Bond and its significance.
(b) Phospholipids form Bilayer in Biomembranes. Comment.
(c) Significance of Carrier Proteins 2,3,2=7

UNIT-II

4. Describe Mode of Enzyme Action supported by theories studied by you. 7
5. (a) Give an Illustrated Account of EMP Pathway.
(b) Give significance of HMP Shunt
(c) Differentiate Glycogenesis and Glycogenolysis. 3,2,2=7

UNIT-III

6. Enlist various Enzymes encountered by food in the human intestine along with their action. Write briefly on nervous Regulation of Breathing. 4,3=7
7. (a) Define Haldane Effect
(b) Describe briefly different Phases of Digestion in Mammalian Gut
(c) Write briefly on 'Transport of O_2 and CO_2 in Human Blood'. 1,3,3=7

UNIT-IV

8. Give Functions of Blood & Lymph. Describe Origin and Regulation of Heart Beat. 3,4=7
9. (a) Describe ABO and Rh Blood Group System
(b) Describe upper and lower values of Blood Pressure and factors controlling them.
(c) Significance of Blood Clotting. 3,3,1=7