

(i) Printed Pages : 3]

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
Examination**

1127

ZOOLOGY

(Biochemistry and Animal Physiology-I)

Paper : II (ZOO-302)

Time : 3 Hours]

[Max. Marks : 36

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

1. Describe the following :

- (i) Oxyhaemoglobin
- (ii) Significance of EMP Pathway
- (iii) Types of RNAs
- (iv) Isoenzymes
- (v) Haldane's Effect
- (vi) Emulsification of Fats

(vii) Cardiac Output

(viii) Bleeding Time

1×8=8

Unit-I

2. Give classification and functions of Proteins. 4+3=7
3. (a) Glycogen and its significance.
(b) What are Nucleotides ?
(c) Role of Lipids in Biomembranes. 2+3+2=7

Unit-II

4. Write in detail on classification and Nomenclature of Enzymes. Write a note on induced Fit Hypothesis of Enzyme Action. 1+3+3=7
5. (a) Give an illustrated account of Glycolysis.
(b) Describe Glycogenolysis.
(c) Significance of HMP Shunt. 3+3+1=7

Unit-III

6. Describe Digestion of Proteins and Nucleic Acids in Mammalian Gut. Write briefly on Symbiotic Digestion. 5+2=7
7. Write short notes on :
(a) What is Hamburger's Phenomenon ?
(b) Oxygen Dissociation Curves
(c) Transport of Respiratory Gases in Blood 2+2+3=7

Unit-IV

8. Describe Formed Elements of Human Blood. Describe Erythropoiesis along with its regulation. 4+3=7
9. (a) What is Cardiac Cycle ?
(b) Origin and conduction of Heart Beat
(c) Clotting Factors of Blood 3+2+2=7