

(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) 4th Semester
1046

ZOOLOGY

Paper-II : Biochemistry and Animal Physiology-II (Zoo-402)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :- Attempt **five** questions selecting **one** question from each Unit. Question No. 1 is compulsory.

1. Explain briefly :

- (a) Ketosis
- (b) Transamination
- (c) Osmoregulation
- (d) Calcium in muscle contraction
- (e) Neurotransmitter
- (f) Insulin and glucagon
- (g) Renin-angiotensin
- (h) Myelinated nerve fibre.

8×1=8

UNIT—I

2. Describe beta oxidation of fatty acids.

7

3. (a) Explain process of lipogenesis in tissues. 4
(b) What is gluconeogenesis? 3

UNIT—II

4. (a) What is oxidative deamination? 4
(b) How decarboxylation of amino acids takes place? 3
5. Describe Ornithine cycle in detail. 7

UNIT—III

6. Describe the process of counter current mechanism. 7
7. Describe ultrastructure of muscle fibre. 7

UNIT—IV

8. Write notes on :
(a) Myoneural junction
(b) Resting membrane potential. $3.5 \times 2 = 7$
9. (a) Describe structure and functions of hormones secreted by ovary. 4
(b) Describe role of cortisol and epinephrine in glucose metabolism. 3