

(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) 4<sup>th</sup> 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