

(i) Printed Pages : 3]

Roll No.

(ii) Questions : 9]

Sub. Code :

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Exam. Code:

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**B.A./B.Sc. (General) 4th Semester
Examination**

1047

ZOOLOGY

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

Time Allowed : 3 Hours]

[Maximum Marks : 36

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

1. Explain briefly :

- (a) Site of fatty acid oxidation
- (b) Fate of glycerol in lipolysis
- (c) Aminotransferase
- (d) Amino acids as fuel in muscle

- (e) Nephron
- (f) Juxtaglomerular apparatus
- (g) Epinephrine
- (h) Myoneural junction 8x1

Unit-I

- 2. (a) Describe energy yield from complete oxidation of a fatty acid. 4
- (b) Describe steps required for oxidation of unsaturated fatty acids. 3
- 3. (a) Explain process of formation of ketone bodies. 4
- (b) How glucose is generated from sources other than glycogen in emergency ? 3

Unit-II

- 4. (a) How does amino acid degradation take place ? 4
- (b) How decarboxylation of amino acids take place ? 3
- 5. Describe catabolism of amino acids to form urea. 7

Unit-III

6. (a) How does kidney help to regulate water and electrolyte balance of body ? 3
- (b) Describe process of urine formation by kidneys. 4
7. (a) Describe sliding filament mechanism of muscle contraction. 4
- (b) What is sarcomere ? 3

Unit-IV

8. Write notes on :
- (a) Propagation of impulse along axon
- (b) Structure of neuron 4+3
9. (a) Describe structure and functions of hormone secreted by THYROID. 4
- (b) Describe role of FSH and LH in regulation of ovarian cycle. 3