

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

0	3	5	6
---	---	---	---

Exam. Code :

0	0	0	4
---	---	---	---

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

(2053)

ZOOLOGY

Paper : II Biochemistry and Physiology-II (ZOO-402)

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— Attempt *five* questions in all, including Question No. I which is compulsory and selecting *one* question from each Unit.

I. Explain briefly :—

- (a) Transamination.
- (b) Glucogenic and ketogenic amino acids.
- (c) Juxtaglomerular apparatus.
- (d) Role of ADH.
- (e) Cori's cycle.
- (f) Troponin.
- (g) Resting Membrane Potential.
- (h) Differences between Diabetes mellitus and Diabetes insipidus.

8×1

UNIT—I

- II. (a) Explain β -oxidation of fatty acids.
(b) Discuss the energetics of stearic acid oxidation. 4,3
- III. Explain the mechanism of synthesis of palmitic acid. 7

UNIT—II

- IV. Describe urea cycle. Explain its significance. 7
- V. Explain the following :—
(a) Oxidative deamination
(b) Decarboxylation. $3\frac{1}{2}+3\frac{1}{2}$

UNIT—III

- VI. (a) Describe the counter current mechanism of urine formation in man.
(b) Write a note on osmoregulation. 5,2
- VII. Explain the mechanism of muscle contraction. 7

UNIT—IV

- VIII. What is the resting membrane potential ? Explain the mechanism of conduct of nerve impulse. 7
- IX. (a) Make a well labeled diagram of T.S. Adrenal gland.
(b) Write an account on the hormones excreted by Adrenal Medulla. 3,4