(i) Printed Pages : 2 Roll No. .....

(ii) Questions : 9 Sub. Code : 1 7 3 5 6

Exam. Code : 0 0 0 4

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

(2055)

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. Briefly explain the following :

(a) Transamination

(b) Dicarboxylic acid shuttle

(c) Types of nephron

(d) Juxta-glomerular Apparatus

(e) Sarcomere

(f) Muscle fatigue

(g) Vasa recta

(h) Addison's disease. 8×1

UNIT—I

II. Describe steps required for oxidatoin of palmitic acid. Give an account of energy yield from complete oxidation of palmitic acid. 7

III. Explain the following :

(a) Ketosis

(b) Lipogenesis in tissue. 3+4

UNIT–II

IV. Describe the process and significance of Ornithine cycle. 7

V. Explain the following :

(a) Oxidative Deamination

(b) Decarboxylation. 3+4

UNIT–III

VI. Explain the following :

(a) Ultrafiltration

(b) Selective Reabsorption. 3½+3½

VII. Describe the electrical and biochemical events in muscle contraction. 7

UNIT–IV

VIII. (a) Draw a well labelled diagram of Neuron.

(b) Write a note on saltatory propagation of nerve impulse. 3+4

IX. Describe the structure of thyroid gland and functions of hormones secreted by it. 7