

Exam. Code : 103204

Subject Code : 1371

B.A/B.Sc. Semester—IV

ZOOLOGY

—Zoo-IV B (Animal Physiology)

Time Allowed-3 Hours] [Maximum Marks-35

Note :— Section A is compulsory. Attempt **ONE** question from each Unit of Section B. All questions carry equal marks.

SECTION—A

1 x7=7

I. Give brief answer to the following :

- (i) Symbiotic digestion
- (ii) Electrocardiogram
- (iii) Lymph
- (iv) Ultrafiltration
- (v) Myoneural function
- (vi) Haemostasis
- (vii) Taxes and reflexes.

SECTION—B

4X7=28

UNIT—I

II. Describe the digestion and absorption of proteins.

III. Explain transport of respiratory gases in blood.

UNIT—II

IV. (a) Give an account of different blood groups and Rh system of humans.

(b) Discuss hemopoiesis.

V. Write a detailed notes on :

(a) Cardiac output

(b) Cardiac cycle.

UNIT—III

VI. Give an account of mechanism of muscle contraction.

VII. How is the initiation and propagation of nerve impulse carried out along non-medullated nerve fibres ?

UNIT—IV

VIII. Describe the hormones secreted by the thyroid gland and their functions.

IX. Write notes on the following :

(a) Testosterone

(b) Oestrogen

(c) Insulin.