

Exam. Code : 103204

Subject Code : 1391

B.A./B.Sc. 4th Semester

ZOOLOGY

Paper—ZOO—IV B

(Animal Physiology)

Time Allowed—Three 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

(1×7=7)

I. Give brief answer to the following :

- (i) Functional type of movements in gastrointestinal tract
- (ii) Haldane effect
- (iii) Cardiac output
- (iv) Haematopoiesis
- (v) Resting membrane potential
- (vi) Synaptic knobs
- (vii) Neurohypophysis.

SECTION—B

(4×7=28)

UNIT—I

- II. Describe the digestion of dietary constituents.
- III. (a) Explain the oxygen-dissociation curve of haemoglobin.
- (b) Explain chloride shift. Give its importance.

UNIT—II

- IV. Describe the constituents of blood alongwith their functions.
- V. Give detailed account of the mechanism of blood clotting.

UNIT—III

- VI. Explain the role of various contractile proteins in muscle contraction.
- VII. Describe the labelled diagram of neuron with myelin sheath.

UNIT—IV

- VIII. Describe the hormones secreted by adrenal gland and their functions.
- IX. Write notes on the following :
- (a) Gonadotropin-releasing hormone
- (b) Anti-diuretic hormone
- (c) Parathormone.