

Exam. Code : 103204  
Subject Code : 1309

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

ZOOLOGY

Paper—Zoo-IV B (Animal Physiology)

Time Allowed—3 Hours] [Maximum Marks—35

Note :— Section A is compulsory. Attempt total  
FOUR questions from Section B, ONE from each  
unit.

SECTION—A

- I. (i) Agglutinogens.  
(ii) Cortisol.  
(iii) Corpus albicans.  
(iv) Role of troponin.  
(v) Nodes of Ranvier.  
(vi) Bohr effect.  
(vii) Deglutition. 1×7=7

SECTION—B

UNIT—I

- II. Write a note on digestion of proteins. 7  
III. (a) What is oxygen dissociation curve ?  
(b) Which factors affect haemoglobin affinity for  
oxygen ? Explain. 3+4

**UNIT—II**

- IV. (a) Define Hemostatis.  
(b) What is the mechanism responsible for Hemostatis ? Explain. 2+5
- V. Explain in detail various mechanisms of reabsorption in kidney. 7

**UNIT—III**

- VI. Give an account of molecular mechanism of muscle contraction. 7
- VII. What are neurotransmitters ? Explain their role with help of an example. 7

**UNIT—IV**

- VIII. Which hormonal factors influence spermatogenesis ? Explain. 7
- IX. (a) Differentiate between Reflex and Instinct.  
(b) Define Learning. Explain its types. 3+4