

Roll No.

DD-469

**M. Sc. (Second Semester)
EXAMINATION, May/June, 2020**

ZOOLOGY

Paper Second

(General Physiology and Endocrinology)

Time : Three Hours

Maximum Marks : 80

Note : Attempt all the *five* questions. All questions carry equal marks.

1. Write short notes on the following :
 - (a) Hemoglobin as a respiratory pigment
 - (b) Synaptic transmission
 - (c) Auditory receptors
 - (d) Biosynthesis of thyroid

Unit—I

2. Give general organisation of Alimentary canal and explain the mechanism of digestion.

Or

Explain transport of CO₂ and O₂ in higher animals.

(A-71) P. T. O.

Unit—II

3. Describe the mechanism and regulation of muscle contraction.

Or

Describe the physiology of nerve impulse conduction.

Unit—III

4. Write notes on the following :
- (a) Thermoregulation in poikilotherms
 - (b) Chemoreceptor

Or

- (a) Photochemistry of vision
- (b) Hibernation in vertebrates

Unit—IV

5. Describe the structure and functions of hormones secreted by pituitary gland.

Or

Explain the hormonal control on cyclic changes of women.