

C 80319

(Pages : 2)

Name.....

Reg. No.....

**SIXTH SEMESTER B.A./B.Sc. DEGREE EXAMINATION, MARCH 2020**  
(CUCBCSS—UG)

**Zoology**

**ZOL 6B 11—PHYSIOLOGY AND ENDOCRINOLOGY**

Time : Three Hours

Maximum : 80 Marks

*Give illustrations and figures wherever necessary.*

**Part A**

I. One word questions. Answer *all* questions :

- 1 The enzyme trypsinogen is changed to trypsin by \_\_\_\_\_.
- 2 Accumulation of urea and other waste substances in the blood is called \_\_\_\_\_.
- 3 The endocrine gland which contributes to setting the body's biological clock is the \_\_\_\_\_.
- 4 The movements in the gut wall are known as \_\_\_\_\_.
- 5 \_\_\_\_\_ hormone causes strong uterine contractions during parturition.
- 6 Muscle fatigue sets in due to non availability of \_\_\_\_\_.
- 7 At a neuromuscular junction, synaptic vesicles discharge \_\_\_\_\_.
- 8 Zymogen cells of gastric glands produce \_\_\_\_\_.
- 9 In mammals the brain centre regulating body temperature is found in \_\_\_\_\_.
- 10 \_\_\_\_\_ is a peptide hormone.

(10 × 1 = 10 marks)

**Part B**

I. Short answer questions. Answer any *ten*. :

- 11 What is Bohr effect ?
- 12 What are neurotrophins ?
- 13 What is summation ?
- 14 What is haemostasis ?

**Turn over**

- 15 What are neurohemal organs ?
- 16 What is myocardial infarction ?
- 17 What is an action potential ?
- 18 What are osmoconformers?
- 19 What are G cells?
- 20 What is the function of cholecystokinin.
- 21 What is anorexia ?
- 22 What are neurohormones? Give an example.

(10 × 2 = 20 marks)

### Part C

III. Paragraph questions. Answer any *five* :

- 23 Neuromuscular junction.
- 24 Hormonal disorders.
- 25 Ruminant digestion.
- 26 Hormonal control of kidney function.
- 27 Pituitary hormones.
- 28 Respiratory problems of diving mammals.
- 29 Importance of dietary fibres.
- 30 Classification of hormones.

(5 × 6 = 30 marks)

### Part D

IV. Essay questions. Answer any *two* :

- 31 Explain the mechanism of urine formation. Add a note on its hormonal regulation.
- 32 Write an essay on the role of hormones in female sexual cycle.
- 33 Describe the structure of an electric organ. What are the major functions of an electric organ.
- 34 Give an account of human blood and its constituents.

(2 × 10 = 20 marks)