



Zoology

K22U 3658

Reg. No. : .....

Name : .....

**Third Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/Improvement) Examination, November 2022  
(2019 Admission Onwards)  
COMPLEMENTARY ELECTIVE COURSE IN ZOOLOGY  
3C03ZLG : Animal Physiology**

Time : 3 Hours

Max. Marks : 32

- I. Essay Questions – Answer **any two**. (2×6=12)
- 1) Describe the role of different hormones in the female reproductive cycle.
  - 2) Describe the conduction system of heart.
  - 3) Write an essay on the transport of oxygen during gaseous exchange.
  - 4) Describe the mechanism of impulse transmission across synapse.
- II. Short Essay Questions – Answer **any two**. (2×3=6)
- 5) Describe the counter current mechanisms in the functioning of Kidneys.
  - 6) Illustrate and explain the organization of myofibrils.
  - 7) Differentiate neurogenic and myogenic heart.
- III. Short Answer Questions – Answer **any six**. (6×2=12)
- 8) What is meant by glomerular filtrate ?
  - 9) Which are the four phases of Menstrual cycle ?
  - 10) Name the hormones secreted by the neurohypophysis.
  - 11) Expand GABA.
  - 12) Name the four chambers of ruminant stomach.
  - 13) What is Chlorocruorin ?
  - 14) What is corpus albicans ?
  - 15) Differentiate voluntary and involuntary muscles.

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- IV. Multiple Choice Questions – **All questions compulsory**. (4×0.5=2)
- 16) Secretion of Gastrin is stopped by
 

a) Gastrin	b) Enterogastrone
c) Renin	d) Insulin
  - 17) The contractile protein of the skeletal muscle involving ATPase activity is
 

a) Myosin	b) Tubulin
c) Troponin	d) Tropomyosin
  - 18) Recognize the hormone secreted by the pituitary gland that triggers the smooth muscle of the uterus to contract during parturition in animals
 

a) Vasopressin	b) Oxytocin
c) Prolactin	d) Gonadotropins
  - 19) Brush border is a characteristic feature of
 

a) Neck of nephron	b) Collecting tube
c) Proximal convoluted tubule	d) All of the above