

19U616

(Pages: 2)

Name:

Reg.No:

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2022

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U ZOL6 B10 - PHYSIOLOGY AND ENDOCRINOLOGY

(Zoology - Core Course)

(2019 Admission - Regular)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Discuss the significance of fasting.
2. Define Respiratory pigments.
3. Describe any one respiratory problems of newborns.
4. What are the four mechanisms of osmoregulation?
5. Mention any four abnormal constituents of urine.
6. What is alkalosis?
7. What are isotropic bands?
8. What is a bipolar neuron?
9. What is symbiotic bioluminescence?
10. Explain the importance of corpora cardiaca and corpora allata in insects.
11. Explain the importance of hormone- receptor interaction in hormonal action.
12. Describe short- loop and long-loop feedback mechanism.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Explain Nervous and hormonal control of digestive activity.
14. Explain Common cardio- vascular problems.

15. Discuss the organization of actin filament.
16. Discuss energetics of muscle contraction.
17. Explain generation of action potential.
18. Explain structure, functions and deficiency diseases of parathyroid.
19. Describe structure, functions and pathophysiology of pituitary gland.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

20. Explain functions and composition of blood.
21. Explain hormonal action at the level of membrane, cytoplasm and nucleus with examples.

(1 × 10 = 10 Marks)
