Reg. No	Name	20U344
NCS. NO	Name	20037

B. Sc DEGREE END SEMESTER EXAMINATION - OCT. 2020 : JANUARY 2021 SEMESTER 3 : COMPLEMENTARY ZOOLOGY FOR B Sc BOTANY

COURSE: 19U3CPZOO3: HUMAN PHYSIOLOGY AND IMMUNOLOGY

(For Regular - 2019 Admission)

Time : Three Hours Max. Marks: 60

PART A

Answer All (1 mark each)

- 1. Give examples for exogenous anticoagulants
- 2. Mention the two attributes of antigenicity
- 3. Name any two respiratory pigments.
- 4. What are antigen presenting cells?
- 5. Write a note on Addison's disease and Cushing syndrome
- 6. Classify the vitamins
- 7. Comment on cardiac muscle.
- 8. Name the enzyme secreted by juxtaglomerular cells.

 $(1 \times 8 = 8)$

PART B

Answer any 6 (2 marks each)

- 9. Give the significance of blood clotting
- 10. How does hypoxia cause cell damage?
- 11. Differentiate between innate and acquired immunity.
- 12. Phagocytosis in immune cells
- 13. Outline the general characteristics of hormones
- 14. Describe adrenal gland secretions.
- 15. What is fatigue?
- 16. Justify excretion is necessary for living beings.

 $(2 \times 6 = 12)$

PART C

Answer any 4 (4 marks each)

- 17. Compare and contrast the granulocytes with diagrams
- 18. Describe the following: 1) Saltatory conduction 2) Neurotransmitteres 3) Epilepsy
- 19. Give an account of oxygen transport during respiration.
- 20. Write a note on antigen antibody reactions.
- 21. Classify the hormones based on their chemical nature?
- 22. Describe the Ultrastructure of Sarcomere with diagram.

 $(4 \times 4 = 16)$

PART D

Answer any 2 (12 marks each)

- 23. Writ an essay on the composition of blood mentioning each fuctions?
- 24. What is synaptic transmission? Explain the mechanism of propagation of action potential with the help of diagrams
- 25. Describe and illustrare the basic structure of Immunoglobulins. Discuss the general fuctions of different immunoglobulins
- 26. Write an essay on lymphoid organs.

 $(12 \times 2 = 24)$