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B.Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2024

SEMESTER 3 : COMPLEMENTARY ZOOLOGY FOR BOTANY

COURSE : 19U3CPZOO3 : HUMAN PHYSIOLOGY AND IMMUNOLOGY

(For Regular 2023 Admission and Improvement/Supplementary 2022/2021/2020/2019 Admissions)

Time : Three Hours

Reg. No

PART A

Answer All (1 mark each)

- 1. What is hypercarbia?
- 2. Define dwarfism.
- 3. Name the three regions of renal tubule.
- 4. What is Coombs test?
- 5. Name the two hormones are secreted by the posterior pituitary.
- 6. What is nerve impulse?
- 7. Name any two non-protein organic components of blood plasma.
- 8. Define TONIC muscle .

(1 x 8 = 8)

PART B Answer any 6 (2 marks each)

- 9. Differentiate haptens and complete antigens.
- 10. What is precipitation?
- 11. What is Asphyxia?
- 12. Give the significance of blood clotting.
- 13. what is Parkinson's disease?
- 14. What is Rigor Mortis?
- 15. Describe on night blindness.
- 16. Comment on GFR.

PART C

Answer any 4 (4 marks each)

- 17. Define active and passive immunity.
- 18. Explain antigen antibody reactions.
- 19. Explain the functions of blood.
- 20. Comment on Non-striated and Cardiac muscles.
- 21. Give a note on pituitary gland secretions.
- 22. Give an account of the counter current multiplier system of kidney.

(4 x 4 = 16)

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 $(2 \times 6 = 12)$

PART D

Answer any 2 (12 marks each)

- 23. Evaluate on the composition of blood. Mention the functions of each component.
- 24. Elucidate the process of formation of action potential and resting potential in synaptic transmission. Use neat diagrams.

Max. Marks: 60

- 25. Describe and illustrate the basic structure of Immunoglobulins. Compare and Contrast the different classes of immunoglobulins.
- 26. Explain the mechanism of innate immunity.

(12 x 2 = 24)