

B. SC. DEGREE END SEMESTER EXAMINATION - OCTOBER 2019
SEMESTER – 3: ZOOLOGY (COMPLEMENTARY COURSE)
COURSE: 15U3CPZOO3, HUMAN PHYSIOLOGY AND IMMUNOLOGY

(For Regular - 2018 Admission and Improvement 2017 / Supplementary 2017, 2016 & 2015 Admissions)

Time: Three Hours

Max. Marks : 60

PART A

*Answer **all** of the following.*

1. Define hypercapnia.
2. What is arteriosclerosis?
3. What is oxygen debt?
4. Write short notes on dialysis.
5. What is all or none law?
6. Write short notes on ECG.
7. What is DPT?
8. Write short notes on Widal test.

(1 x 8 = 8)

PART B

*Answer **any six** of the following.*

9. Briefly explain AIDS.
10. Comment on types of antigens.
11. Write notes on monoclonal antibodies.
12. Describe briefly the types of muscles.
13. Explain briefly the structure of typical neuron.
14. Explain briefly the mode of action of hormones.
15. Give a brief account on vitamin deficiency.
16. Describe briefly oxygen transport.

(2 x 6 = 12)

PART C

*Answer **any four** of the following.*

17. Explain the composition of human blood.
18. Explain the mechanism of innate immunity.
19. Describe the structure of immunoglobulin.
20. Comment on the physiological effects of smoking.
21. Give an account of the ultra-structure of a striated muscle.
22. Define synapse. Add notes on synaptic transmission of impulse.

(4 x 4 = 16)

PART D

*Answer **any two** of the following.*

23. Describe primary and secondary lymphoid organs.
24. Describe the mechanism of blood clotting.
25. Give an account of human endocrine glands and their hormones.
26. Explain the structure of human nephron. Add notes on the process of urine formation.

(12 x 2 = 24)
