

Reg. No.....

Name.....

**B. Sc. DEGREE END SEMESTER EXAMINATION OCTOBER 2017**  
**SEMESTER – 3: ZOOLOGY (COMPLEMENTARY) FOR BOTANY**  
**COURSE: 15U3CPZOO3; HUMAN PHYSIOLOGY AND IMMUNOLOGY**

*Common for Regular (2016 Admission) & Supplementary / Improvement (2015 Admission)*

Time: Three Hours

Max Marks: 60

**PART A****Answer all of the following**

1. What is Widal Test?
2. Name four vaccines.
3. What is saltatory conduction?
4. Define Hypercapnea.
5. Define Myocardial Infarction
6. What is Glomerular nephritis.
7. Define All or None Law.
8. What is Hamburger's phenomenon ? (1 x 8 = 8)

**PART B****Answer Any Six of the following**

9. Describe the mechanism of hormone action.
10. Write short notes on humoral and cell mediated immunity?
11. Brief note on ECG.
12. What is oxygen debt?
13. Comment on Alzheimer's syndrome
14. What is dialysis?
15. What is CO poisoning?
16. Mention the importance of Iodine in our diets. (2 x 6 = 12)

**PART C****Answer any four of the following**

17. Explain the physiological effects of smoking.
18. Explain various types of cells in immunity.
19. Explain counter current mechanism in urine formation.
20. Elaborate hybridoma technology and monoclonal antibodies.
21. Describe four endocrine gland secretion disorders.
22. Explain the functions of blood. (4 x 4 = 16)

**PART D****Answer any two of the following**

23. Give an account on human nephron with a neat and labeled diagram. Add a brief note on hormonal control of renal function.
24. Elucidate "Coagulation of blood" with the help of a flow chart: Add a brief description.
25. Explain in detail the molecular changes and the mechanism of striated muscle contraction.
26. Write a detailed account on the immune response system. Differentiate between the various types of immunity. (12 x 2 = 24)

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