

TB153550A

Reg. No:

Name:

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2016
SEMESTER III - COMPLEMENTARY COURSE (ZOOLOGY)
ZY3C03TB -- HUMAN PHYSIOLOGY AND IMMUNOLOGY
(For Botany and Home Science)

Time: Three Hours

Maximum Marks: 60

PART A

I. Answer all questions. Each question carries 1 mark

1. What is chloride shift?
2. Name the fat soluble and water soluble vitamins.
3. What is glomerular nephritis?
4. Expand a) HIV b) ELISA
5. What is MHC?

(5x1=5)

PART B

II. Answer any five questions. Each question carries 2 marks

6. Draw the structure of a typical neuron.
7. Explain the terms a) Hypoxia b) Asphyxia.
8. Comment on the physiological implications of smoking.
9. Briefly explain Angioplasty.
10. Write short note on Rigor Mortis.
11. Comment on Islets of Langerhans.
12. Differentiate between Active immunity and Passive immunity.
13. Comment on the applications of monoclonal antibodies.

(5x2=10)

PART C

III. Answer any five questions. Each question carries 5 marks

14. Briefly explain malnutrition disorders
15. Define synapse. Give an account of impulse transmission across a synapse.
16. With figure explain the ultrastructure of a striated muscle fibre.
17. Give an account of blood clotting disorders.
18. Briefly explain the composition & functions of blood
19. Give an account of hypothalamo - hypophysial interaction and hormones from pituitary.
20. Describe the mechanism of innate immunity.
21. Briefly explain the cells of immune system.

(5x5=25)

PART D

IV. Answer any two questions not exceeding four pages. Each question carries 10 marks

22. Elaborate the mechanism of gaseous transport in blood.
23. Explain the physiology of urine formation.
24. Describe the basic structure of immunoglobulin; Add short note on different types of immunoglobulins
25. Write an essay on lymphoid organs & tissues associated with immune response.

(2x10 =20)