

16P411

(Pages:2)

Name.....

Reg.No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, MARCH 2018

(Regular/Supplementary/Improvement)

(CUCSS - PG)

CC15 PZO4 C10–IMMUNOLOGY

(Zoology)

(2015 Admission onwards)

Time:Three Hours

Maximum: 36 Weightage

Part A

Answer *all* questions. Each question carries *1* weightage.

1. Bruton's Disease.
2. SCF-c-KIT complex.
3. Multivalent vaccines.
4. Autoantibodies.
5. Hybridoma technology.
6. Anti retroviral therapy.
7. MALT
8. Cell mediated immunity.
9. Interferons.
10. Adjuvants.
11. Antigenicity and immunogenicity.
12. Role of IL7 in B cell maturation.
13. CLIP
14. ITAM

(14x1=14 Weightage)

Part B

Answer any *seven* questions.Each question carries *2* weightage.

15. Discuss the structure of Class I MHC molecule.
16. Give an account of the Type I hypersensitivity reaction.
17. Explain the different stages in HIV proliferation.
18. Discuss about systemic autoimmune diseases.
19. Explain the TCR- CD3 complex.
20. Explain the mechanism of antibody diversity.
21. Comment on the interactions between macrophages and antigen.
22. Highlight the role of Toll-like receptors in immunity.
23. Explain the principle of ELISA and its significance.

24. Describe the structure and functions of Immunoglobulin molecule

(7x2=14 Weightage)

Part C

Answer any *two* questions. Each question carries *4* weightage.

25. Discuss in detail the major cells and organs of the immune system.

26. Explain the process of B- cell and T- cell generation, activation and differentiation.

27. Write an essay on the complement system.

28. Explain the cytosolic pathway of antigen processing and presentation.

(2x4=8 Weightage)
