

19P314

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CUCSS-PG)

CC19P ZO3 C07 - IMMUNOLOGY AND CELL BIOLOGY

(Zoology)

(2019 Admission Regular)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any *four* questions.

1. Give an account of principles of cell communication.
2. Differentiate innate and acquired immunity.
3. Write about CD8+ cytotoxic cells (Tc cells)
4. Explain radioimmunoassay (RIA)
5. Describe the role of MHC in immune system.
6. Write about apoptosis and the genes involved in it.
7. Discuss about antibody engineering.

(4 x 2 = 8 Weightage)

II. Answer any *four* questions

8. Write about the structure of C1 macromolecular complexes and explain classical pathway in complement system.
9. Give an account of autoimmune diseases.
10. Explain the process of inflammation.
11. Elaborate on the role of IgE in type-I hypersensitivity.
12. Discuss the structure of antibody. Write a note on different classes of antibody.
13. Write down the general properties of cytokines and write briefly about cytokine antagonists.
14. Describe the immunological basis of graft rejection.

(4 x 3 = 12 Weightage)

III. Answer any *two* questions

15. Explain various types of vaccines and their importance in preventing diseases.
16. Write in detail, the maturation and differentiation of B cells.
17. Elaborate the different pathways in antigen processing and presentation.
18. Give a detailed account on types and roles of cell adhesion molecules.

(2 x 5 = 10 Weightage)
