PG Even Semester Exam, 2024

Microbiology

2nd Semester

COURSE NO. MBCC- 551

[Cellular Microbiology & Immunology]

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions, selecting one from each unit.

UNIT-I

1. Differentiate between Prokaryotic and Eukaryotic signalling and write a short note on paracrine signalling. 9+5=14

2. Differentiate between endocrine signaling and intercellular signalling and write a short note on cytokine signalling. 9+5=14

UNIT-II

3. Discuss in detail the major functions and mechanism of lymphoid organs in our body with the help of a neat diagram. 14

4. Discuss the contributions of the scientist 'Landsteiner' in immuno haematology of blood groups. What is RH compatibility? Discuss? 7+7=14

UNIT-III

5. Define vaccine. In details discuss newer generation vaccines. 14

6. Define toxoid. In details discuss about various imminization programs in India. 14

UNIT-IV

7. With the help of a neat diagram, explain the agglutination, haemaglutination and precipitation tests. Also write about their medical importance. 9+5=14

8. With the help of a neat diagram explain the enzyme linked immunosorbent assay (ELISA) and complement fixation tests (CFT). Also write about their medical importance. 9+5=14

UNIT-V

9. With the help of a neat diagram discuss in details the complement pathways. 14

10. Write short notes on : 7+7=14

    a. Transplantation immunology

    b. Tumor immunology

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