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PG Even Semester (CBCS) Exam., May—2019

MICROBIOLOGY

(2nd Semester)

Course No. : MIBCC–201

(Cellular Microbiology and Immunology)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. Describe the various types of signalling systems in prokaryotic cell. 14

2. Describe the cytokine and endocrine hormonal signalling in multicellular organisms. 14

UNIT—II

3. Enumerate the differences between humoral and cell-mediated immunity. In detail write the mechanism of humoral immune response. 7+7=14

4. What are lymphoid organs? Describe them with the help of suitable diagrams. 14

UNIT—III

5. Define the following : 2×7=14

(a) Hapten

(b) Adjuvant

(c) Opsonization

(d) Null cells

(e) T-independent antigens

(f) Superantigens

(g) Atopy

6. Describe the various classes of immunoglobulins in detail mentioning their various propeties and features. 14

UNIT—IV

7. Write a detailed note on hybridoma technology and diagramatically represent the technique. 14

8. Diagramatically explain the immuno-fluorescence test in detail. 14

UNIT—V

9. Enumerate the various auto-immune diseases and discuss their preventive measures. 14

10. Discuss the role of major histocompatibility complex in the immune response. 14

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