5. What is host-parasite interaction? Describe the recognition and entry process of virus into host cells. [4+10=14]

OR

6. Write short notes on the following: [2x7=14]
   a. Quoram sensing
   b. Hematopoisis regulation

7. Discuss the generalized immunoglobulin structure. Add a note on the functional attributes of its different domains. [10+4=14]

OR

8. Write short notes on the following: [2x7=14]
   a. Innate and adaptive immune system
   b. T - cell maturation

9. Explain the mechanism of antigen processing and T-cell activation to generate advance immune response. [14]

OR

10. Write short notes on the following: [2x7=14]
    a. Cytokines of innate cells
    b. NK cells

PG (CBCS) ODD SEMESTER EXAMINATION, 2021
held in July 2022

LIFE SCIENCE & BIOINFORMATICS
1st Semester

Course No. : LISBCC - 102
(Cell Biology and Immunology)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

(Answer all questions)

1. What is resting potential? Describe the mechanism of generation of action potential in a neuron. [4+10=14]

OR

2. Write short notes on the following: [2x7=14]
   a. Phospholipids in lipid bilayer
   b. Structure and functions of lysosome

3. What is intracellular vesicular trafficking? Describe protein transport from Golgi apparatus to lysosomes. [4+10=14]

OR

4. Write short notes on the following: [2x7=14]
   a. Cyclin dependent protein kinase C (CKD)
   b. Rab proteins