Or

6. What is induced systemic resistance? Explain the mechanism of aquired systemic resistance in plant. Add a note on systemic tolerance in plants. 3+11=14

7. Write a note on Baltimore classification of viruses. 14

Or

8. Discuss different type of replications in viruses. 14

9. Describe the replication in plant viruses. Write laboratory techniques used for diagnosis of viral diseases. 7+7=14

Or

10. Write short notes on : 3.5x4=14

(i) SiRNA

(ii) Peptide vaccine

(iii) Antiviral drugs

(iv) Repurposing drugs

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PG Odd Semester Examination, 2022

BIOTECHNOLOGY

(1st Semester)

Course No.: BTYCC-503

(Microbiology and Virology)

Full Marks: 70

Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions.

1. Write the structure of bacterial cell with the function of different organelles. Highlight the distinguished character of gram negative cell wall. 9+5=14

Or

2. Write short notes on : 7x2=14

(i) Mycobacterria (ii) Extromophiles

3. What is the basic principle in construction of culture media. Write the different techniques of isolation of mutants of nutrient categories of bacteria. 6+8=14

Or

4. What is microbial growth? Write the different phases of microbial growth with the help of growth kinetics. 3+4=14

5. What do you mean by microbial nitrogen fixation. Write the process of symbiotic nitrogen fixation. 3+11=14