4. Write short notes on : 7x2=14

(i) Kinetics of immobilized enzyme

(ii) Application of immobilized enzyme

UNIT-III

5. Discuss the use of enzyme in the manufacture of chemicals. 14

6. Write short notes on : 7x2=14

(i) Enzymes in food & drink industry.

(ii) Enzymes in clinical chemistry

UNIT-IV

7. What are biopesticides and how do they work? Elaborate mode of action and specificity of *Bacillus thuringienis* toxins in the control of caterpillar larva. 14

8. Write short notes on : 7x2=14

(i) Antibiotics

(ii) Biofuels

UNIT-V

9. Write note on different types of microbial toxins. Discuss the chemical nature and mode of action of exotoxin & endotoxin. 14

10. Write short notes on : 7x2=14

(i) Antiplasmodial compounds

(ii) Anti-intlammatory compounds.

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PG Even Semester Examination, September, 2023

MICROBIOLOGY

(2nd Semester)

Course No: MBCC-204
(Microbial Enzyme Technology)

FM: 70
Pass Marks : 28
Time: 3 Hours

The figures in the right margin indicate full marks for the question
Answer all questions taking one from each unit.

UNIT-I

1. Discuss the various sources of enzymes and advantage of microbial sources over them. Discuss the various stages involved in large scale production of enzymes. 14

2. Write short notes on : 7x2=14

(i) Column Chromatography

(ii) Protoplast Fusion

UNIT-II

3. What is enzyme immobilization. Discuss the immobilization criteria of an enzyme. Describe the different enzyme immobilization techniques with diagrams. 14