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

MICROBIOLOGY

(2nd Semester)

Course No. : MIBCC–204

(Microbial Enzyme Technology)

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. Write a note on the different sources of enzymes. How can the production of microbial enzymes be regulated? 14

2. Write short notes on the following : 7×2=14

(a) Salting in and salting out

(b) Ultrafiltration and dialysis

UNIT—II

3. What is an enzyme immobilization? Describe different enzyme immobilization techniques with diagrams. 14

4. Write short notes on the following : 7+7=14

(a) Biosensors

(b) Factors affecting enzyme kinetics

UNIT—III

5. Write short notes on the following : 7+7=14

(a) Use of enzyme in medicine

(b) Enzyme electrodes

6. Write short notes on the following : 7×2=14

(a) Synthesis of chemical using enzyme

(b) Role of enzyme in food industry

UNIT—IV

7. Elaborate mode of action and specificity of *Bacillus Thuringiensis* toxins in the control of caterpillars larva. 14

8. Write short note on the following : 7+7=14

(a) Baculovirus

(b) Biopolymers

UNIT—V

9. Write short notes on the following : 7+7=14

(a) Exotoxins and endotoxin

(b) Antifungal compounds

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

(a) Recombinant DNA technology

(b) Anti-viral compounds and their mode of action

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