

AU-330

M.Sc. (Part—I) Semester—II (CBCS Scheme) Examination

MICROBIOLOGY

(Enzyme Technology)

Paper—VI

Time : Three Hours]

[Maximum Marks : 80

Note :— All questions are compulsory are carry equal marks.

1. Explain in detail the concept of enzyme and substrate specificity. 16

OR

Explain in detail the role of metals in enzyme activity. 16

2. Explain the role of pyruvate dehydrogenase complex as a multienzyme complex. 16

OR

(a) Explain the regulation of glycogen phosphorylase activity by the covalent modification of the functional group. 8

(b) Explain feed back inhibition with suitable examples. 8

3. What is allosterism ? Explain cooperativity in allosteric enzymes. 16

OR

How are enzymes regulated by covalent modification ? 16

4. Explain different types of reactors used for enzymes with suitable sketch. 16

OR

What are the components of a biosensor ? How do they function ? 16

5. Explain the immobilization of microbial enzymes by using various methods. 16

OR

Give the applications of microbial enzymes in various industries. 16

