

2055

B.Sc. (Hons.) Bio-Informatics (FYUP)  
Second Semester  
BINF -2001: Fundamentals of Biochemistry

Time allowed: 3 Hours

Max. Marks: 60

**NOTE:** Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) Define Holozyme.
- b) What are Pyranoses and Furanoses? Give examples.
- c) What is Specific activity?
- d) Define Epimers.
- e) What are Polysaccharides?
- f) Define Katal.

(6x2)

UNIT - I

II. a) Deliberate on Chemistry of water.

b) Discuss briefly Specificity and regulation of enzymes.

(2x6)

III. a) Discuss Effect of pH and Temperature on enzyme activity.

b) Give a brief account of Enzyme classification.

(2x6)

IV. a) Discuss Lineweaver Burk equation and its significance.

b) Deliberate on Competitive and Non competitive inhibition.

(2x6)

UNIT - II

V. Elaborate on Monosaccharides and their different types and structural isoforms. (12)

VI. Write a note on Disaccharides, different types and Structures, giving examples. (12)

VII. What are Polysaccharides? Deliberate on types, structures, Roles with examples. (12)

x-x-x