2025

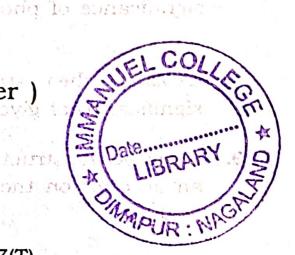
(FYUGP)

(4th Semester)

ZOOLOGY

(MAJOR)

Paper: ZOO/C7(T)



(Fundamental of Biochemistry)

Explain the polynauty appropriate and miximal.

Full Marks: 75

Pass Marks: 40%

Time: 3 hours

The figures in the margin indicate full marks for the questions

Explain in detail the structures of monosaccharide and disaccharide with suitable examples.
7½+7½=15

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Give a detailed account of gluconeogenesis with appropriate diagram.

biological

2. Explain the structure and significance of phospholipids.

15

Or

Explain the structure and biological significance of glycolipids.

Describe the structure of a-amino acid. Write an account on the classification of α -amino 6+9=15acid.

Or

Explain the primary, secondary, tertiary and quaternary structures of proteins. 15

What are nucleic acids? Describe in detail the structure of nucleotides. 2+13=15

Or

Explain the hypo- and hyper-chromaticity of DNA. Add a note on the types of RNA.

10+5=15

5. Give a detailed account on the nomenclature and classification of enzymes.

15

Or

Discuss the Lineweaver-Burk plot with proper graphical representations. What are the factors affecting the rate of an enzyme-catalysed reaction? 8+7=15