



Aditya Group of Degree Colleges
ADITYA DEGREE COLLEGES

* ANDHRA PRADESH *
PRE FINAL - EXAMINATIONS
I B.Sc II SEMESTER
BIOTECHNOLOGY

Max. Marks : 75 M
Time: 3 Hours

Date: 24.03.2020

SECTION-A

I. Answer any FIVE of the following questions: 5 x 5 = 25 M

1. Chargaff's Rule
2. Z - DNA
3. Homopoly saccharides.
4. Explain the structure of Chlorophyll
5. Lock and Key model.
6. Active site
7. Concept of high energy bonds.
8. Concept of Redox potential.

SECTION-B

II. Answer the following questions: 5 x 10 = 50 M

9. a) Describe in detail the structure of Watson and crick model of DNA ?

(Or)

- b) What is RNA ? Describe various types of RNA's.

10. a) Explain physical and chemical properties of Amino acids.

(Or)

- b) Explain the primary, secondary, tertiary and quaternary structure of proteins.

11. a) Write the classification of lipids.

(Or)

- b) What are Heteropolysaccharides ? Give two examples along with their applications ?

12. a) Explain the classification and Nomenclature of enzymes.

(Or)

- b) Explain about enzyme Inhibition.

13. a) Write in detail about Glycolysis pathway and its importance.

(Or)

- b) Write about Bypass reactions along with examples.