

B Sc ISt Year
Ist SEMESTER
BIOINFORMATICS

Paper- INTRODUCTORY BIOINFORMATICS AND BIOCHEMISTRY

UNIT I

1. What is Bioinformatics –Definition, Importance and Applications?
2. What is bio computing- Biocomputing for future
3. Types of biological database
4. Composite database and Non redundant database

UNIT II

1. Introduction to internet, service on internet
2. E-mail, FTP, CHAT
3. HTML-Tags for formatting text
4. HTML-Audio contents and forms

UNIT III

1. Visual Basics 6.0
2. Introduction to visual basics
3. Working controls
4. Variable and procedures

UNIT IV

1. Structure of protein, carbohydrate and lipid
2. Metabolism of carbohydrate
3. Metabolism of proteins
4. Metabolism of lipids

UNIT V

1. Nutritional aspects of protein, lipid and carbohydrate
2. Chemistry and function of vitamins
3. Glycolysis(animal)
4. Krebs cycle and ETC (animal)

LISTOF PRACTICALS

1. Detect the presence of carbohydrates in the given sample solution.
2. Detect the presence of Proteins in the given sample solution.
3. Detect the presence of fats in the given sample solution.
4. Detect the presence Acid radical in the given sample.
5. Detect the presence Basic radical in the given sample.
6. Write the documentation to open gmail account using internet.
7. What is e-mail? Write its advantages and disadvantages.
8. What is star topology? Write its advantages and disadvantages.
9. Write a program in visual basic for addition of two numbers.
10. Write a program in visual basic to calculate the area of a circle.
11. Write a program in visual basic to say “HELLO” to your friend.

Spotting: As per the syllabus.

LIST OF BOOKS

- 1. Basic Bioinformatics** **S.Ignacimuthu,S.J**
- 2. Fundamental of Computer** **Murthy,C.S.V.**
- 3. Bioinformatics** **C.S.V. Murthy**
- 4. Bioinformatics** **M.M.Ranga**
- 5. Bioinformatics method & application** **S.C. Rastogi**
- 6. Dictionary of Bioinformatics** **Karuna Saree**
Kakollu
- 7. Hand Book of Bioinformatics** **S.N. Mukhopahay**
- 8. Instant notes in Bioinformatics** **David, Wesherd**
- 9. Encyclopedia of Bioinformatics** **C. kuprsurmy**
- 10. Bioinformatics: Theory and Practice** **Chikhale&Gomase**

