

KRISHNA UNIVERSITY

B. SC I YEAR BIOTECHNOLOGY * I SEMESTER *(CBCS)

PAPER 1*BT-101* BIOMOLECULES &ANALYTICAL TECHNIQUES

TIME:3HRS

MODEL QUESTION PAPER

MAX. MARKS: 75

SECTION -A

ANSWER ANY 5 QUESTIONS

5X5 =25 M

1. Mutarotation
2. Isoelectric point
3. High energy compounds
4. RCF
5. Isoelectric focusing
6. Beer Lambert law
7. Phase contrast microscope
8. Chi square test

SECTION-B

ANSWER ALL QUESTIONS. EACH QUESTION CARRIES 10 MARKS.

5X10=50M

1. Explain the structure of Proteins

Or

Write in detail about the Structure and Function of Phospholipids

2. Discuss the Watson and crick model of DNA

Or

Write an essay on Tri Carboxylic Acid (TCA) Cycle.

3. What is Partition Coefficient? Explain Paper Chromatography in detail.

Or

What is Electrophoresis and Explain the SDS-PAGE technique.

4. What is Spectroscopy? Explain the Design and Application of UV-Visible Spectrophotometer.

Or

Describe various methods involved in the measurement of Radio activity.

5. Explain the t-test and its significance in Biostatistics.

Or

What is ANOVA and Discuss one way ANOVA with an example.