



B.Sc BIOTECHNOLOGY II YEAR
III- SEMESTER
BIOCHEMISTRY AND BIOSTATISTICS
QUESTION BANK FOR PRACTICALS

Duration= 2 hours

Total= 25M

I. MAJOR PRACTICALS

1x10=10M

1. Qualitative tests for sugars
2. Qualitative tests for aminoacids
3. Qualitative tests for lipids
4. Estimation of total sugars by anthrone method
5. Separation of amino acids by paper chromatography
6. Estimation of proteins by biuret method
7. Problems on measures of dispersion- mean deviation and standard deviation
8. Problems on Correlation and Regression analysis
9. Problems on One-way ANOVA analysis

II. MINOR PRACTICALS

1x5 = 5M

1. Reducing sugars by DNS method
2. Amylase activity assay
3. Graphical representation of data (histogram, frequency polygon & pie-diagram)
4. Problems on measures of central tendency- mean, median & mode
5. Problems on chi-square test for goodness of fit

III. SPOTTERS / EXHIBITS

5x1 = 5M

1. Carbohydrates (Monosacharides, Disacharides, Polysacharides)
2. Reagents used for analysis of carbohydrates, aminoacids and lipids
3. Colorimeter
4. Spectrophotometry
5. Electrophoretic unit and Agarose gel electrophoresis
6. Chromatography (Paper/TLC)
7. Centrifuge
8. Diagrammatic (line diagram, bar diagram & pie diagrams) representation of data
9. Graphic representation of data (histogram, frequency polygon & frequency curve)
10. Normal Probable curve
11. Regression lines

IV. RECORD & VIVA

5M