

SEMESTER – VI
BIOCHEMISTRY OF DISEASES
PRACTICAL

Programme: B.Sc.
Course Code: U20/BIC/DSE/604/P
Course Type: DSE – 2
No. of credits: 1

Max. Hours: 45
Hours per week: 3
Max.Marks:50

Course objective:

Introduce the students to biochemical aspects of diseases and prepare them for specialization in clinical aspects of biochemistry.

Course Outcomes:

CO1: Enhance their skills in testing various clinical parameters in relation to human health.

CO2: Learn the abnormal concentrations of various components in body and how they can be used to identify various clinical aspects of the human body.

PRACTICAL SESSIONS

1. Determination of blood sugar level by Glucometer & understanding GTT
2. BMI determination, Waist-Hip Ratio and Determination of Body Type.
3. Thyroid Profile
4. Total cholesterol estimation and LDL/HDL ratio
5. Total protein estimation and A/G determination.
6. Estimation of Liver Enzymes-SGOT& SGPT (2 sessions)
7. Demo of Permanent slides for different types of cancer/ Chart of Biomarkers and their role in different types of cancer
8. Dot ELISA
9. Urine Analysis (physical and abnormal properties).
10. Case study.

MODEL QUESTION PAPER
PRACTICAL

Course Code: U20/BIC/DSC/101/P
Credits: 1

Max Time: 2 Hrs
Max. Marks: 50

Answer the following

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| 1. Write the principles for the given experiments. | 1 x 5 = 5 M |
| a) | |
| b) | |
| 2. Quantitative Estimation | 15 M |
| 3. Qualitatively estimate the abnormal constituents present in the given urine sample. | 10 M |
| 4. Case Study | 10 M |
| 5. Viva | 5 M |
| 6. Record | 5 M |