

SEMESTER – I
MOLECULES OF LIFE
PRACTICAL

Programme: B.Sc.

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

Course Type: DSC - 1

No. of credits: 1

Max. Hours: 45

Hours per week: 3

Max. Marks: 50

Course objective:

Introduce the basic molecules of life with respect to their isolation and estimations quantitatively.

Course Outcomes:

CO1: Learn the procedure to isolate certain macromolecules from food sources.

CO2: Enhance their skills in qualitative identification of Sugars and lipids by following a series of tests and procedures.

PRACTICAL SESSIONS

1. Isolation of starch from potato.
2. Isolation of casein from milk.
3. Qualitative Analysis of Carbohydrates.(4 sessions)
4. Qualitative Analysis of Lipids.(3 sessions)
5. Preparation of buffers & determination of pH.
6. Achromic Point

MODEL QUESTION PAPER
PRACTICAL

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

Max Time: 2 Hrs
Max. Marks: 50

Answer the following

- | | |
|--|---------------|
| 1. Write the principles for the given experiments.
a)
b) | 2 x 5 = 10 M |
| 2. Identify the carbohydrates present in the given sample.
Write the flowchart and structure for the identified sugars.
a)
b) | 2 x 10 = 20 M |
| 3. Isolate casein / Starch from the given sample.
Report the weight of the isolated compound. | 10 M |
| 4. Viva | 5 M |
| 5. Record | 5 M |