

**Bankura Christian College
Department of Physiology**

2ndYEAR: SEMESTER-III (Academic Session: 2023-24)

Course Code: SP/PHY/301/C-1C

Course ID: 32528

Credit- 02; Full Marks: 15

Classes: 09(Lecture) + 02 (Class test/Revision)

Course Title: Digestive System, Metabolism, Nutrition and Excretory System Lab

Dr Rajkumar Maiti

Course Learning Outcomes:

- This practical paper will help to increase the ability of students in qualitative and quantitative importance of physiologically important biomolecules.
- Student will develop their skill in the titration process with high level of accuracy.

Topics allotted

Qualitative Experiments

1. Qualitative tests for the identification of physiologically important substances:

Hydrochloric acid, lactic acid, glucose, fructose, lactose, sucrose, starch, albumin, peptone, urea, acetone, glycerol and bile salts - Systematic analysis and confirmatory test.

MONTH/YEAR	WEEK	PORTIONS
September 2023	1	Introduction about Qualitative Experiments.
	2	Qualitative tests for the identification of physiologically important substances: Hydrochloric acid, lactic acid, Systematic analysis and confirmatory test.
	3	Qualitative tests for the identification of physiologically important substances: Glucose, fructose Systematic analysis and confirmatory test.
	4	Qualitative tests for the identification of physiologically important substances: Lactose, sucrose. Systematic analysis and confirmatory test.
MONTH/YEAR	WEEK	PORTIONS
October 2023	1	Class test on Acid and carbohydrate.
	2	Qualitative tests for the identification of physiologically important substances: Starch, albumin Systematic analysis and confirmatory test.
MONTH/YEAR	WEEK	PORTIONS
November 2023	1	Qualitative tests for the identification of physiologically important substances: peptone, Urea, peptone Systematic analysis and confirmatory test.
	2	Qualitative tests for the identification of physiologically important substances: Acetone, glycerol Systematic analysis and confirmatory test.
	3	Qualitative tests for the identification of physiologically important substances: Bile salts Systematic analysis and confirmatory test.
	4	Class test on protein, urea and bile salts.
MONTH/YEAR	WEEK	PORTIONS
December 2023	1	Viva voce discussion

Suggested Books

1. Note Books on Practical Biochemistry. Published by The Physiological Society of India. Kolkata
2. Debnath, J. (2008). Babaharik Sarisbigwan. Sridhar Prakasani. 2nd Edition.
3. Manna, M. (2005). Practical Physiology. Sritara Prakasoni. 1st Edition.

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