PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENCE
Autonomous
Siddhartha Nagar, Vijayawada–520010
Re-accredited at 'A+' by the NAAC

23CHMAP121: Qualitative Analysis of Simple Salt

Offered to: B.Sc Honours (Chemistry) **Course Type:** Major 3 (Core -Practical)

Year of Introduction: 2023-24 **Year of offering: 2023 - 2024**

Semester: II 30 Hrs **Credits: 1**

I. Course outcomes:

At the end of the course, the student will be able to;

Course Outcome NO	Outcome	Mapping to
CO1	Remember the basic concepts of qualitative analysis of inorganic simple salt	PO6
CO2	Understand the use of glassware, equipment and chemicals and follow experimental procedures in the laboratory.	PO7
CO3	Apply the concepts of common ion effect, solubility product and concepts related to qualitative analysis	PO7
CO4	Analyse the salt mixture in to cations and anions	PO6
CO5	Create awareness on different cations and anions	PO7

CO-PO MATRIX								
23CHMAP121	**CO-PO**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
	CO1						M	
	CO2							H
	CO3							H
	CO4						M	
	CO5							M

II. Laboratory course syllabus: Analysis of SIMPLE SALT (35+15) M

Analysis of simple salt containing ONE anion and ONE cation from the following:
Anions: Carbonate, Sulphate, Chloride, Bromide, Acetate, Nitrate, Borate, Phosphate. Cations: Lead, Copper, Iron, Aluminium, Zinc, Nickel, Manganese, Calcium, Strontium, Barium, Magnesium and Ammonium.

Co-curricular activities and Assessment Methods

1. Continuous Evaluation: Monitoring the progress of student's learning.

2. Class Tests, Work sheets and Quizzes

3. Presentations, Projects and Assignments and Group Discussions: Enhances critical thinking skills and personality

4. SEMESTER -End Examination: critical indicator of student's learning and teaching methods adopted by teachers throughout the SEMESTER.

TEXT BOOK:

1. Salt analysis by Dr. souradh muktibooh.

Reference books:

1. Vogel's Quanlitative Inorganic Analysis, Seventh edition, Pearson.

QUESTION PAPER PATTERN FOR CORE LAB COURSES

(A) SEE (LAB) Model Question Paper

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Max.Marks: 35 **Max.Time: 3Hours**

Pass. Min: 14

I. **Answer the following.** **Max. Marks: 30**

Q1. PRILIMINARY TESTS

Q2 DRY TESTS

Q3 WET TESTS

Q4 CONFORMATION OF CATION

Q5 REPORT

II Viva **3 Marks**

III Record **2 Marks**

(B) CONTINUOUS ASSESMENT: **15 MARKS**

TOTAL: (A)+(B) = **50MARKS**

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