

Suggestion regarding chemistry practicals.

1. We propose to shift the analysis of natural organic compound to Std. XI (Science).
2. Physical Chemistry experiments for demonstrations only, but to be recorded in the Journal.
3. The marking scheme for the final Std. XII Sc. Examination (practicals) may be as follows.

<u>Volumetric Analysis</u>	7 marks
<u>Salt Analysis (Inorganic) qualitative analysis</u>	8 marks
<u>Functional group</u>	2 marks
<u>Journal + Viva</u>	2 marks + 2 marks = 4 marks
<u>Project + Viva</u>	2 marks + 2 marks = 4 marks

Scheme for allotment of marks to the different experiments.

Internal Examiner	External Examiner
1. Volumetric analysis 7 marks a) Observation 1 mk b) Calculation of Volume . 1 mk. c) Correct titre reading 3 mk d) 2 calculations <u>2 mk</u> 7 mk	1. <u>Inorganic qualitative analysis</u> – (Salt analysis).. 8 marks a) Pre/Drytest -- 1/2 mark each = 1/2 X 8 = 4 marks b) Group separation 1 mark c) Identification of cation ..1/2 mk c) C.T. For cation 1/2 mk d) Identification of Anion ... 1 mark e) C. T. For Anions 1/2 mk f) Correct formula of salt 1/2 mk <hr/> 8 marks
2. Functional Group 2 Marks For detailed distribution of marks refer annexure – I	2. Project 2 marks Viva on project 2 marks
3. Journal 2 marks Viva on Journal experiment ..2 marks	
Total marks.....13 marks	<hr/> Total marks = 12 marks

ANNEXURE – I

Distribution of marks for Identification of Functional Group

Functional Group	Marks to be allotted
1. Carboxylic group (- Co OH	2 marks
2. Phenolic group	If not identified correctly. 1/2 mk to be awarded for responding – Co OH as absent \$ 1 and 1/2 for detecting phenolic group correctly.
3. Anino group (- NH ₂)	If not identified correctly. 1 mk for recoding -Co OH \$ phenolic group as absent, 1 mk for detecting - NH ₂ group correctly
4. Carbinyl group	If not identified correctly. 1 mk for recoding absence of Co OH , - NH ₂ \$ phenolic group (1/2 mark only if only two of these groups are mentioned. 1/2 mk for detecting carbonyl group 1/2 mk for distinguishing carbenyl group either as – CHO or CO
5. Alcoholic group (- OH)	Not identified correctly, 1mk for reporting – CO OH , phenolic, - NH ₂ \$ carbonyl group as absent. (1/2 mk only if any of the two above groups are mentioned) 1 mk for recording alcoholic group correctly

P.S. Test for alcoholic group to be performed last.

The scheme for detection of Functional Group should be as follows.

1. Test for Co OH group
2. Test for phenolic group
3. Test for - NH₂
4. Test for Carbenyl group
5. a) Detection of -CHO
b) Detection of – CO
6. Test for alcoholic group