

2021

(July)

CHEMISTRY

(Elective / Honours)

[Chem-EH-401]

(Inorganic-II)

(Practical)

Marks : 19

Time : 6 hours

Instructions to Examiners

1. For Question No. 1 :

Prepare a stock solution of calcium chloride by dissolving 100 g of calcium carbonate in dilute HCl (first dissolve completely calcium carbonate in 170 ml of 6 N HCl along with 300 ml of water and make up the volume up to one litre).

Each student should be supplied with an accurately measured volume between 20 ml and 30 ml of the solution in 250 ml

volumetric flask. The students should be asked to make up the volume up to 250 ml. Each student should prepare 0.1 N (approx) oxalic acid solution. Potassium permanganate of 0.1 N (approx) must be supplied.

Distribution of Marks : 10

Estimation of calcium	
For completion of experiment	2
Error less than 2%	8
Error between 2% and 3%	7
Error between 3% and 4%	6
Error between 4% and 5%	5
Error between 5% and 6%	4
Error between 6% and 7%	3
Error between 7% and 8%	2
Error between 8% and 9%	1
Error above 9%	0

Marking should be graded according to the magnitude of error within specified ranges.

2. For Question No. 2 :

Sessional work. 4

3. For Question No. 3 :

Viva voce (mainly based on experiment performed). 5

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