

2 0 1 3

(November)

CHEMISTRY

(General)

Course : 502

(Inorganic Lab)

Full Marks : 16

Pass Marks : 6

Time : 6 hours

Instructions to Examiners

1. Quantitative inorganic analysis : 14

Dissolve 25 g A. R. Ferrous ammonium sulphate $\text{FeSO}_4(\text{NH}_4)_2\text{SO}_4 \cdot 6\text{H}_2\text{O}$ in a 250 ml volumetric flask with distilled water and about 5 ml of concentrated sulphuric acid.

Give between 20–25 ml of the solution to each student (taking different volumes for each student). Iron should be estimated volumetrically either by $\text{K}_2\text{Cr}_2\text{O}_7$ or standard KMnO_4 solution.

Distribution of Marks :

Completion of experiment including calculation	3
Preparation of solutions and/or standardization	2
Error up to $\pm 1\%$	9
$\pm 2\%$	7
$\pm 3\%$	5
$\pm 4\%$	3
$\pm 5\%$	1

2. Viva voce. 1
