

UG 1st Semester Examination 2020
(Blended Mode)
Chemistry
Programme Course
Inorganic and Organic Chemistry (Practical)

Full Marks- 20

Time- 2 Hours

Group-A (Inorganic Chemistry)

Answer any one from the following :-

- i) Give major difference between primary standard and secondary standard solutions. Is $\text{Na}_2\text{S}_2\text{O}_3$ a Primary or Secondary Standard solution and why? Find out the equivalent weight of $\text{K}_2\text{Cr}_2\text{O}_7$. Give the formula of more salt. 2+2+4+2
- ii) What do you mean by Molarity and Normality of a solution? In which P^{H} range does Methyl Orange work? How do you prepare standard 250 ml ($\text{N}/_{20}$) Oxalic Acid Solution. Is P^{H} maintenance is required in an Idometric estimation – why? 2+1+4+3

Group-B (Organic Chemistry)

- i) How can you identify 'N' as an element in a sample? Give the structure of Salicylic Acid. Are Phenols acidic in nature? When treated with FeCl_3 which colours do they produce? Give one example with reaction. 3+1+1+1+4
- ii) What is back-dye test? How can we prepare Tollen's reagent in laboratory? How can you identify – COOH group in your sample? Give the full name of D.N.P. and which functional group helps to detect? 2+2+3+3
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