

U.G. 3rd Semester Examination -2021

CHEMISTRY (GENERIC)

Course Code: HCCGE-P-I(PR)

[PRACTICAL]

Full Marks: 20 Time: Hours

Answer any four Questions (5 x4 = 20)

1. What is equivalence point? Draw the graph of titration between Na_2CO_3 and HCl. Write the name of the indicators used. 1+3+1
2. What is Permanganometry? Briefly discuss estimation of Fe^{2+} in a given Mohr's salt solution by Permanganometry. (only theory) 1+4
3. (a) Write molecular formula of Mohr's salt (b) Write molecular weight of KMnO_4 . How will you prepare 0.1(M) KMnO_4 and 2(N) H_2SO_4 solution? (Show calculation) 1+1+3
4. Define Primary and Secondary standard solution? Between $\text{K}_2\text{Cr}_2\text{O}_7$ and $\text{Na}_2\text{S}_2\text{O}_3$ solution, which one is primary standard and why? 2+3
5. What is Lassaigne's Test? Discuss detection of special elements like Nitrogen and Halogens in Organic Sample. 1+4
6. How will you detect Carboxylic acid group and Ester group present in Organic compound? Write down the confirmatory test for aldehyde group (-CHO). 4+1