

2022
Chemistry (General) Practical
Part-III
Paper- VI

Full Marks- 40

Time- 3 hrs

Answer all questions:

1. What are primary and secondary standard solution? Give example. 3
2. Name the types of analytical balances commonly used for volumetric analysis. 2
3. What does actually the 40, 41, 42 of Whatman filter paper mean? 2
4. In permanganometry no indicator is used.- Why? 2
5. Why $K_2Cr_2O_7$ superior to $KMnO_4$ as a standard solution? 2
6. Calculate the weight of $K_2Cr_2O_7$ is required to prepare 300 ml of (N/10) solution? 2
7. Calculate the equivalent weight of $NaOH$, Na_2CO_3 , $NaHCO_3$ and $H_2C_2O_4 \cdot 2H_2O$. 4
8. How do you prepare 350 ml of 0.15 (N) H_2SO_4 from conc. H_2SO_4 ? 2
9. What is the principal of choosing indicator for a particular Acid- Base titration? 2
10. Why is nitric acid or hydrochloric acid not used in permanganate titration ? Explain. 2
11. Explain the mode of action of BaDS indicator. 2
12. What is peptization? How can it be avoided? 3
13. What is meant by acidimetry and alkalimetry? 2
14. Draw the chemical structure of methyl orange, methyl red, phenolphthalein indicators. 3
15. Why is carbonate ion considered as a strong base? 2
16. Give the balance Chemical equation of Dichromate with Ferus iron reaction. 2
17. What is PH ? What is the cause of hardness of water? 3