



FEDERAL BOARD OF INTERMEDIATE AND SECONDARY EDUCATION
H-8/4, ISLAMABAD



CHEMISTRY HSSC
(National Curriculum 2006)
PRACTICAL EXAMINATION 2024

| S # | List of Practicals |
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| 1. | AlCl_3 |
| 2. | BaCl_2 |
| 3. | CuSO_4 |
| 4. | FeCl_3 |
| 5. | MgSO_4 |
| 6. | $\text{Pb}(\text{CH}_3\text{COO})_2$ |
| 7. | CaCO_3 |
| 8. | $\text{Al}(\text{NO}_3)_3$ |
| 9. | $\text{Cr}_2(\text{SO}_4)_3$ |
| 10. | CaCl_2 |
| 11. | $\text{Zn}(\text{NO}_3)_2$ |
| 12. | CrCl_3 |
| 13. | $(\text{NH}_4)_2\text{CO}_3$ |
| 14. | Fe SO_4 |
| 15. | $\text{Al}_2(\text{SO}_4)_3$ |
| 16. | The given solution contains 6gms of Na_2CO_3 dissolved per dm^3 . Determine the Percentage Purity of the Sample Solution by Volumetric Method |
| 17. | Standardize the Given Solution of KMnO_4 and Calculate the Volume of KMnO_4 Required for Preparing 1 dm^3 of 0.01M KMnO_4 Solution Volumetrically. |
| 18. | Determine the Percentage Composition Volumetrically of a Solution Mixture of $\text{K}_2\text{C}_2\text{O}_4$ and K_2SO_4 . |
| 19. | The given solution contains 6gms of Na_2CO_3 dissolved per 250 cm^3 . Determine the Percentage Purity of the Sample Solution by Volumetric Method |
| 20. | Separate the Given Mixture of Inks by Paper Chromatography |

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| 21. | Crystallize Benzoic Acid from water |
| 22. | Purify a Given Sample of Sodium Chloride by Passing HCl Gas. (Application of common ion effect) |
| 23. | Prepare Nickel Dimethyl Glyoxime. |
| 24. | Prepare Ethylene from Ethylene Bromide |
| 25. | Prepare Iodoform. |
| 26. | Identify the Phenol Functional Group |
| 27. | Prepare Glucosazone |
| 28. | Identify the Aldehyde and Ketone Functional |
| 29. | Identify the Carboxylic Acid Functional Group. |

Questions to be asked in place of Practical Notebook and Viva Voce. (Total Marks 08)
Write answers of any Four of the following questions on your answer sheet.

| Q.NO | Questions | Marks |
|------|---|-------|
| 1. | Select the oxidizing agent: oxalic acid, ferrous sulphate, $K_2Cr_2O_7$, Mohr's Salt. | (2) |
| 2. | What happens when chlorine salt is heated with conc. H_2SO_4 ? | (2) |
| 3. | In acid base titration experiments. What is always poured in the burette? | (2) |
| 4. | In redox titration $FeSO_4$ is changed to which compound? Write formula. | (2) |
| 5. | Glucosazone can be prepared by the mixing of the different compounds. Write the name used for the preparation of Glucosazone. | (2) |

Note: The above questions will be asked from students as replacement of the marks of Practical Notebook and Viva Voce. The rest of the conduct/format of practical examination will continue as per practice in vogue.