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ACKNOWLEDGEMENTS

First of all I would like to thank my cousin brother **Mr. Neeraj Naithani** Research Scholar Department of Chemistry, TTT Roorkee for his contribution in this study. I would also like to thank my Chemistry Teacher **Ms. Rampal** in providing a helping hand in making my project titled **"Determination Of Caffeine In Tea Samples"**.

Disclaimers: The errors idiocies and inconsistencies remain my own.

Ankit Bahuguna

(Name and signature of the student)

Determination of Caffeine in Tea Samples Ankit Bahuguna (XTT-A)

It is hereby certify that, the original and genuine research work is carried out to investigate about the subject matter and the related data collection and has been completed solely and satisfactorily by this student regarding the Project titled **"Determination Of Caffeine In Tea**

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Chemistry Project To Determine The Caffeine In Tea Samples

Dr. S. C. Rastogi , Er. Meera Goyal



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A Basic Laboratory Techniques

- 1 To cut a glass tube or glass rod
- 2 To bend the glass rod at an angle
- 3 To draw a glass jet from a glass tube
- 4 To bore a cork and fit a glass tube into it

B Characterisation and Purification of Chemical Substances

- 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique
- 2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
- 3 To prepare crystals of pure potash alum $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ from the given impure sample
- 4 To prepare the pure crystals of copper sulphate from the given crude sample
- 5 To prepare pure crystals of benzoic acid from a given impure sample

C Measurement of pH Values

- 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper
- 2 To determine and compare the pH values of solutions of strong acid HCl and weak acid CH_3COOH of same concentration
- 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper
- 4 To study the pH change by common ion CH_3COO^- ion in case of weak acid CH_3COOH
- 5 To determine the change in pH value of weak base NH_4OH in presence of a common ion NH_4^+

D Chemical Equilibrium

- 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions
- 2 To study the shift in equilibrium between Co^{2+} and Cl^- ions by changing the concentrations of either of the ions

E Quantitative Analysis

- 1 To prepare M 10 oxalic acid solution by direct weighing method
- 2 To prepare M 10 solution of sodium carbonate by direct weighing method
- 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid
- 4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution

F Qualitative Analysis

- 1 Analysis of Anions
- 2 Analysis of Cations

G Detection of Elements in Organic Compounds

- 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne's test
- 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne's test

INVESTIGATORY PROJECTS

A Checking of Bacterial Contamination in Water

- 1 To check the bacterial contamination in drinking water by testing sulphide ions

B Methods of Water Purification

- 1 To purify water from suspended impurities by using sedimentation
- 2 To purify water by boiling
- 3 To purify water by distillation method
- 4 To purify water by reverse osmosis technique
- 5 To purify water by GAC method
- 6 To purify water by bleach treatment
- 7 To purify water by oxidising agent
- 8 To purify water by ozone treatment method

C Water Analysis

- 1 To test the hardness of different water samples

D Foaming Capacity of Various Soaps

- 1 To compare the foaming capacity of different washing soaps
- 2 To study the effect of addition of sodium carbonate on foaming capacity of washing soap

E Tea Analysis

- 1 To study the acidity of different samples of tea leaves tea by using pH paper

F

Analysis of Fruits and Vegetable Juices 1 To analyse the fruit and vegetable juices for the constituent present in them G Rate of Evaporation 1 To study the rate of evaporation of different liquids H Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Log Antilog Table

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1. Understanding the eBook Chemistry Project To Determine The Caffeine In Tea Samples
 - The Rise of Digital Reading Chemistry Project To Determine The Caffeine In Tea Samples
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Project To Determine The Caffeine In Tea Samples
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chemistry Project To Determine The Caffeine In Tea Samples
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Project To Determine The Caffeine In Tea Samples
 - Personalized Recommendations

- Chemistry Project To Determine The Caffeine In Tea Samples User Reviews and Ratings
- Chemistry Project To Determine The Caffeine In Tea Samples and Bestseller Lists
- 5. Accessing Chemistry Project To Determine The Caffeine In Tea Samples Free and Paid eBooks
 - Chemistry Project To Determine The Caffeine In Tea Samples Public Domain eBooks
 - Chemistry Project To Determine The Caffeine In Tea Samples eBook Subscription Services
 - Chemistry Project To Determine The Caffeine In Tea Samples Budget-Friendly Options
- 6. Navigating Chemistry Project To Determine The Caffeine In Tea Samples eBook Formats
 - ePub, PDF, MOBI, and More
 - Chemistry Project To Determine The Caffeine In Tea Samples Compatibility with Devices
 - Chemistry Project To Determine The Caffeine In Tea Samples Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemistry Project To Determine The Caffeine In Tea Samples
 - Highlighting and Note-Taking Chemistry Project To Determine The Caffeine In Tea Samples
 - Interactive Elements Chemistry Project To Determine The Caffeine In Tea Samples
- 8. Staying Engaged with Chemistry Project To Determine The Caffeine In Tea Samples
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemistry Project To Determine The Caffeine In Tea Samples
- 9. Balancing eBooks and Physical Books Chemistry Project To Determine The Caffeine In Tea Samples
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemistry Project To Determine The Caffeine In Tea Samples
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chemistry Project To Determine The Caffeine In Tea Samples
 - Setting Reading Goals Chemistry Project To Determine The Caffeine In Tea Samples
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chemistry Project To Determine The Caffeine In Tea Samples
 - Fact-Checking eBook Content of Chemistry Project To Determine The Caffeine In Tea Samples

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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