**AUTUMN BREAK HOLIDAYS HOMEWORK CHEMISTRY XII**

1. Solve any three Chemistry sample paper for CBSE 2024 Exam.

2. Practice previous year CBSE 2023 Chemistry paper in notebook.

3. Practice the following name reactions.

*Sandmeyer Reaction, Gattermann Reaction. Finkelstein Reaction. Swartz Reaction. Wurtz Reaction Fitting Reaction. Wurtz - Fittig Reaction*

*Kolbe’s Reaction. Reimer- Tiemann Reaction . Rosenmund Reduction. Gattermann - Koch Reaction. Stephen Reaction or Stephen Reduction*

*Clemmensen Reduction. Wolff - Kishner Reduction. Haloform Reaction (Iodoform Reaction) Aldol Condensation. Cannizzaro Reaction Friedel - Crafts Reaction. Grignard Synthesis Esterification Reaction or Fischer Esterification. Williamson Synthesis. Diazotisation Reaction*

*Etard Reaction. Hell - Volhard Zelinsky Reaction. Decarboxylation Reaction Hofmann Bromide Reaction. Gabriel Phthalimide Synthesis. Coupling Reaction. Carbylamine Reaction*

4. Prepare Investigatory project from recommended few suggested Projects.

• Study of the presence of oxalate ions in guava fruit at different stages of ripening.

• Study of quantity of casein present in different samples of milk.

• Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc.

• Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, Concentration, time, etc.)

• Study of digestion of starch by salivary amylase and effect of pH and temperature on it.

• Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc.

• Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illaichi (cardamom).

• Study of common food adulterants in fat, oil, butter, sugar, turmeric power, chilli powder and pepper.