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Department of Nutrition and Food Engineering
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Analytical Lab

Experiments List

SL. No.	Experiment Name
1.	Identification of Group-II and Group-III metal ions by flame test (Dry Test).
2.	Identification of metal Ion (Iron II & III) by alkalis test (Strong/Normal/Weak alkalis)
3.	Acid-Base titration- Strong Acid vs Strong base using Phephthaline indicator.
4.	Acid-Base titration- Strong Acid vs weak base using methyl orange indicator.
5.	Preparation a Standard Solution
6.	Standardization of NaOH solution with standardization of Oxalic Acid solution
7.	Standardization of HCl solution with standardization of NaOH solution
8.	Standardization of NaOH solution with standardization of Na ₂ CO ₃ solution
9.	Determine the amount of HCl in the given solution by using NaOH solution by pH metrically
10.	Test for Alcohols
11.	Test for Carboxylic Acids
12.	Test for Aldehydes and Ketones
13.	Test for Carbohydrates
14.	Test for Amines and their Salts
15.	Test for Amides
16.	Test for Amino Acids
17.	Preparation of acetyl salicylic acid (Aspirin)
18.	Preparation of acetanilide
19.	Preparation of Ethylbenzoate
20.	Determination of Blood Group by Slide Method.
21.	Determination of Blood Clotting time by Capillary Tube Test Method.
22.	Determination of Bleeding Time by Duke Method.
23.	Determination of Blood Pressure.
24.	Identification of Heard Beat/Sound by Stethoscopes.
25.	Determination Hemoglobin Test
26.	ESR Blood Test
27.	Test for Carbohydrates
28.	Test for amino acid by thin paper chromatography

29.	Extraction of fat from supplied sample
30.	Extraction of Starch from fresh potato
31.	Determination of Acetic Acid Content from Supplied Vinegar solution
32.	Determination of Added Color in Turmeric Powder
33.	Estimation of Acid Value of Supplied Oil sample
34.	Extraction of protein from supplied sample
35.	Clot on Boiling Test (COB) of Milk
36.	Alcohol Test of Milk
37.	Determination of Acidity of Milk
38.	Determine of Specific Gravity of Milk
39.	Determine of Fat in Milk
40.	Determination of S.N.F. (Solid Not Fat) and Total Solids of Milk
41.	Alkaline Phosphatase Test for Pasteurized Milk
42.	General lecture on Instrumental Methods of Food Analysis Laboratory experiments.
43.	Determine the moisture content of corn flour using a drying oven method.
44.	Determine the ash content of corn flour using a dry ashing procedure.
45.	Determine the lipid contents of snack food by the Soxhlet.
46.	Determination of amino acids using thin layer chromatography.
47.	Determination of protein content by Kjeldahl method.
48.	Experiment to make serial dilution and its calculation.
49.	Making a calibration curve with starch concentrations by UV-visible spectrophotometry.
50.	Determination of phenolic constituent of an unknown sample by UV-visible spectrophotometry.