

## **Important Short Question**

### **Chemistry**

Define molecule and its type on the bases of atomicity and on the bases of kind of atom

Define micro and macromolecule also discuss compound and element

Write difference between metal nonmetal and metalloids

Write difference between molecular formula and empirical formula

Write difference between homo atomic and hetro atomic molecule

Write three application of chemical reaction and also write type of chemical reaction

Explain chemical equation and its balancing step

Write difference between mixture and compound

Point out two properties of water that make it excellent solvent

Why is the water molecule polar

Explain concept of temporary and permanent hardness of water also explain step to remove hardness

What is hydrolysis

Write any three type of chemical reaction

Write three uses of chlorine

Define pH of a solution also write its expression

Two main properties of solution

State three useful clinical applications of an acid

How many groups are in the periodic table also write valency of carbon hydrogen and nitrogen

What is difference between ionic and covalent bond

What are hydrate's also write two examples

Explain decomposition and syntheses reaction also write difference between endothermic and exothermic reaction

What is difference between atomic number and mass number also explain atom

Enlist importance of ions in human body

Write physiologically active proteins

Write difference between mass and weight

Physical and chemical properties of acid base and salts

Enlist 8 chemical and their chemical formulas

Write a short note on importance of water in human body

Write sources of proteins lipids and fats and their importance in human body

Explain impurities in water its biological importance

Explain diffusion and osmosis

Write types of solution

Write difference between molarity molality and mole fraction

Explain lewis and Arrhenius concept of acid and base

Importance of salt in human body

Types of salts and its method of preparation

Write definition of PH and Buffer also write its medical importance

What is indicator also write types of indicator

Three properties of buffer solution

Function of salt bridge

Medical importance of electrolytes

Explain electrolytes and electrolysis

Type of buffer solution along with example

What are amines write its application also draw structure

Properties of amines and amides

What are carbohydrates also write chemical formula and its importance

Plants are sources of oil justify

Write difference between fats oil and ghee

### **Long question**

**Sources and classification of fats oil and lipids**

**Discuss water cycle and its stages**

**Explain concept of PH also write Henderson hesselbatch equation for water**

**Write a detail note o buffer also explain is 7 applications**

**Explain Lewis Arrhenius and Bronsted lowery concept of acid and bases Also elaborate general method of preparation of salts**

**Causes of hardness of water also explain physical and chemical properties of water**

**Write five application of chemical reaction**

**Why some of the properties are called colligative properties**