

# INTRODUCTION TO CHEMISTRY

## INTRODUCTION

SUBJECT-CHEMISTRY

CHAPTER-01

CHAPTER NAME-INTRODUCTION TO CHEMISTRY

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## CHEMISTRY-A BRANCH OF SCIENCE

- The branch of science that deals with the study of the composition and the physical and chemical properties of various forms of matter is called Chemistry.
- Chemistry gives answers to the following questions:-

- ✓ What are the matter made up of?
- ✓ How are the made?
- ✓ How can they become useful?
- ✓ Can they be prepared by man?



## DEVELOPMENT OF CHEMISTRY-A HISTORICAL PERSPECTIVE [ALCHEMY]

- ▶ The word “Alchemy” has its origin in a Greek word ‘Khemeia’ which means “ art of transmuting metals
- ▶ The people practicing alchemy were known as ‘Alchemists’ considered to be the early chemists.
- ▶ They were the first to isolate zinc and phosphorous.
- ▶ They were credited for creating alloys by mixing two or more metals.

THE IRON PILLAR NEAR QUTAB MINAR IS NOTABLE RUST RESISTANT COMPOSITION WHICH IS MADE BY ALLOY OF IRON AND PHOSPHOROUS



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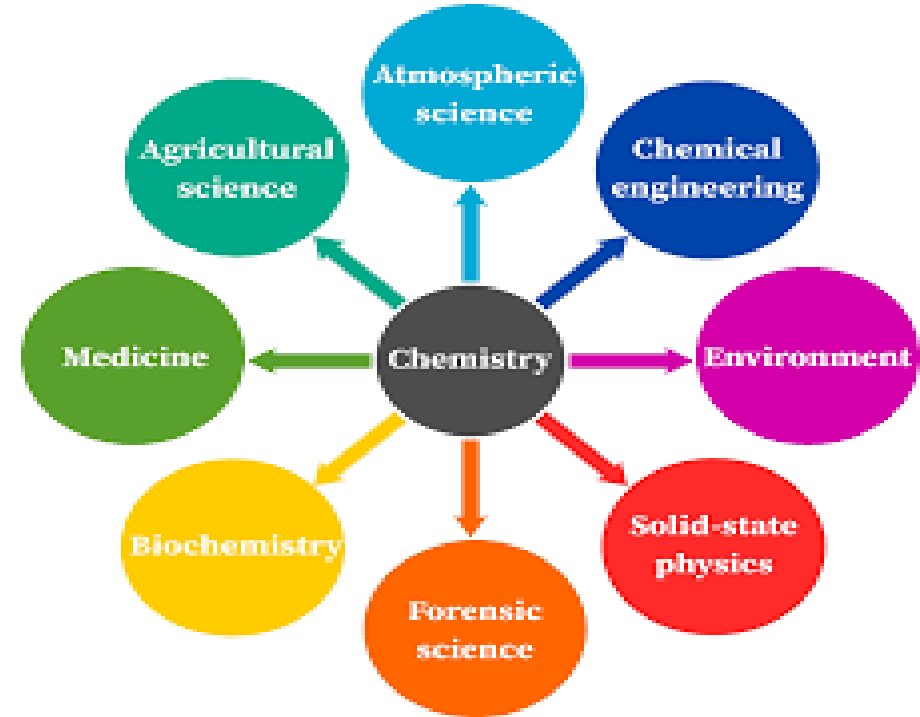


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# IMPORTANCE OF CHEMISTRY

## • FOOD AND AGRICULTURE

- ✓ Fertilizers
- ✓ Pesticides
- ✓ Insecticides
- ✓ Fungicides
- ✓ Preservatives



# IMPORTANCE OF CHEMISTRY

- FOOD PROCESSING AND PROCESS FOOD
- MINERALS AND PETROLEUM
- INDUSTRY
- MEDICINES
- COSMETICS
- CLOTHINGS
- BUILDING MATERIALS



# IMPORTANCE OF CHEMISTRY

- COMMUNICATION DEVICES
- NATIONAL DEFENCE
- RECREATION
- CHEMISTRY AND ENERGY RESOURCES





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## **DARK SIDE OF CHEMISTRY**

- **Chemistry, misused by unscrupulous people, has also been endangering human society.**
- **It has given rise to the menace of harmful drugs and their bulk processing in the world.**
- **Cocaine, brown sugar, heroin etc. had crippled the present day society.**
- **Chemistry has also developed deadly explosives such as TNT,RDX etc.**
- **Chemistry has also developed deadly weapons such as atomic and hydrogen bombs etc.**



## FULL FORM OF SOME HARMFUL GIFT OF CHEMISTRY

- THESE ARE REALLY THE DARK SIDE OF CHEMISTRY

TNT-TRINITRO-TOLUENE  
RDX-RAPID DETONATING  
EXPLOSIVE  
LSD-LYSERGIC ACID  
DIETHYLAMIDE



# CHEMIST AND THEIR CONTRIBUTION

- STARS IN THE FIELD OF CHEMISTRY

JOSEPH PRIESTLY-OXYGEN  
DANIEL RUTHERFORD-NITROGEN  
WILLIAM RAMSAY-INERT GASES LIKE  
HELIUM, ARGON, XENON AND  
KRYPTON  
HENRY CAVENDISH-HYDROGEN



# THANKING YOU

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