

Chemistry :-

Chapter - 1 Introduction to Chemistry

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(2) Short questions and answers :-

(a) What is science?

Ans: Science is systematic, ongoing effort by human being to study, understand and utilise nature for meaningful purposes. This understanding is slowly developed by careful observations and experiments.

(b) What is Chemistry?

Ans: 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.

(c) What is fuel?

Ans: Fuels are the substances which on combustion produce large amount

of heat energy that can be used.

Example:- petrol etc.

③ What is alchemy?

Ans:- The word "Alchemy" has its origin in a Greek word "Khemia" which means "art of transmuting metals". It was partly based on experimentations and partly based on spiritual discipline.

④ How is chemistry in being helping people helpful in improving the health of human beings.

Ans:- Extensive researches by chemists have led to the discovery of a number of medicinal drugs. These drugs help in fighting diseases and have thus increased the life span of human beings.

Example:- paracetamol etc.

Q) What is Philosopher's Stone?

Ans: Philosopher's Stone is not a literal stone but is a mythical and magical substance like Wax, ~~is~~ liquid or powder with magical power which on heating with a base turns into gold.

Q) What is the main difference between alchemy and chemistry?

Ans: The main difference between alchemy and chemistry is that alchemy is both scientific and spiritual where as chemistry is only scientific.

i) Name the chemicals which help in increasing food production.

Ans: Urea, Potash, etc.

(j) Name six products which we use daily.

Ans: Sugar, salt, shampoo, face cream,
Soap and spices.

(3) (c) Cosmetic - Cosmetics are the products used to cleanse, protect and change the appearance of external parts of human bodies.

Example :- talcum
powder etc.

(a) Industry: Chemistry has helped in the growth of different industries. It has enabled us to improve the efficiency of industrial processes. Industries

are set up to produce a large number of consumer products like dyes, etc.

(b) Clothings: Chemistry is widely used in textile industry which manufactures clothings for us. Clothes guard our body from external

environment.

Manufactures of clothings begins with the knowledge of conversion of fibres into fabrics.

Example: Sarees, bags, etc

(d) National Defence :- Substances like

gunpowder, T.N.T (trinitrotoluene), phosgene, chemical weapons, laughing, etc. are all the products of chemistry which contribute to the national defence

(e) Medicines :- Extensive researches by chemists have led to the discovery of a number of medicinal drugs. These drugs help in fighting diseases and have thus increased the life span of human beings

Example:- aspirin, etc

④ Who is known as the 'father of chemistry'?
Why?

Robert William Boyle is known as "father of chemistry". (He was an Anglo Irish Scientist born in Ireland). He was the first to perform experiments under controlled conditions and publish his researches with elaborate details of procedure, apparatus and observations.

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5) Name the scientists who discovered the following.

a) Atoms:- John Dalton.

b) Organism:- Joseph Priestly

c) Safety lamp:- Sir Humphry Davy

d) Elements:- Antoine Lavoisier.