

General Science - 9th Class General Science English Medium Chapter 2 Preparation

Q1. What is the function of Phosphorous in plant.

Ans 1: The most essential functions of phosphorous in plants is in energy storage and transfer. Adenosine di and tri phosphates act as energy currency within the plants. In human being during carbohydrate metabolism and its plant during photosynthesis the energy produced is stored in the form of phosphate compound i.e. ADP and ATP. When the phosphate compounds from either ATP or ADP is split off, a relatively large amount of energy is liberated. This energy is used in growth and reproductive processes.

Q2. Define Green house effect.

Ans 1: By the combustion of fossil fuel , carbon di oxide released in air , Higher concentration of CO₂ in air acts like a glass wall which trapped the heat rays emitted from the earth. this CO₂ increase the temperature of atmosphere. this effect is called green house effect.

Q3. What is artificial atmosphere? Where it is used.

Ans 1: A mixture of helium and oxygen is used as an artificial atmosphere by diver. It is used instead of nitrogen, as it is less soluble than nitrogen in blood to prevent the bends in high pressure work.

Q4. Name the allotropic forms.

Ans 1: 1- Diamond

Ans 2: 2- Graphite

Ans 3: 3- Bucky Balls

Q5. Write the uses of diamond.

Ans 1: Diamond is used in

Ans 2: 1- Cutting of glass and stones

Ans 3: 2- Rock drilling

Ans 4: 3- Polishing of precious stones

Q6. Use Chlorine

Ans 1: Chlorine gas is very poisonous but it has many beneficial uses in daily life.

Ans 2: Antiseptic: It is used to kill germs and bacteria and is commonly used in domestic. It is also used in water purification and in swimming pools.

Ans 3: PVC: Polyvinyl chloride is a common plastic compound of chlorine and is known as insular or as a water proofing material.

Q7. Uses of Helium.

Ans 1: 1- Weather balloons: Helium is very light gas, so it is used as an alternative to hydrogen in weather balloons.

Ans 2: 2- Artificial atmosphere: A mixture of helium and oxygen is used as an artificial atmosphere by divers.

Ans 3: 3- High pressure work: A mixture of helium and oxygen is also used instead of nitrogen as it is less soluble than nitrogen in blood to prevent the effects in high pressure work.

Q8. Use of Potassium.

Ans 1: In glass industry: Potassium in the form of potassium carbonate and potassium nitrate, is used in the preparation of glass.

Ans 2: In Soap Industry: Potassium carbonate is also used in the manufacturing of soap.

Ans 3: In detergent Manufacturing: Potassium nitrate is used in preparation of explosive material

Q9. Define Catenation

Ans 1: One of the unique properties of carbon is that its atoms combine with each other to form long chain or ring chain compounds. This property is known as catenation.

Q10. Write the importance of Iron in living organisms.

Ans 1: Iron is essential to all living organisms. It is present in the active centre of molecules responsible for oxygen carrier and of other types of molecules for electron transport. Normally it is highly toxic, but excessive intake can cause siderosis and damage to some organs.
