

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

Q1. Define Nitrogen cycle.

**Ans 1:** Nitrogen cycle is the process in which atmospheric nitrogen is converted into its compound which then decomposes into nitrogen and goes back into the atmosphere.

Q2. Define Organic chemistry.

**Ans 1:** These compounds are made by the combination of carbon and hydrogen. Most of these compounds also contain oxygen or other elements.

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

**Ans 1:** A mixture of helium and oxygen is used as an artificial atmosphere by divers. 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. 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

Q6. 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 ends in high pressure work.

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Q7. 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 slightly toxic, but excessive intake can cause siderosis and damage to some organs.

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Q8. What is Chemistry

**Ans 1:** It is the chemistry of compounds of carbon as an essential element.

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Q9. Define Proteins.

**Ans 1:** These are the naturally occurring macromolecules which contain polymers of amino acids.

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Q10. Use of Sodium

**Ans 1:** Sodium Lamps: It is used in sodium vapour lamps for street lighting.

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