Pakistan School, Kingdom of Bahrain

**E- Support and Learning Material / Session 2020-2021**

Subject: General science Grade: 9

Book: Text book of General Science for class9th. Page 22-24

**2nd week.**  First Term

Q1. Write the importance and functions of Phosphorous for the maintenance of our Health?

Ans.1.It is essential element for the formation and growth of bones and Teeth.

 2.It Strengthens the bones and controls the activities of joints and muscles.

 3. it deficiency stiffens the joints, makes the bones brittle and affects their growth.

 **Sources.** It is found in fish, dry fruits and Eggs.

 **Importance and Functions of elements for the maintenance of Agriculture**.

Q2. Describe the importance and Functions of Potassium in agriculture.

Ans. Potassium is essential for plants. It is present in soil in small amount.

 There fore Potassium chloride as:” Potash” is used as chemical fertilizers.

 Potassium sulphate and potassium nitrate are used for horticultural crops.

 Such as fruits and vegetables.

Q3. How Calcium is called as the Major Nutrient element of soil?

Ans. 1. Plants require Calcium for their growth.

 2.Gypsum is used as fertilizer as Calcium.

Q4. Briefly describe importance of Magnesium for Plants.

Ans: It is an essential part of chlorophyll on which photosynthesis depends. Thus, without Magnesium the plants will not be able to make their food or grow properly

Q5. Why Chlorine is important in Daily Life?

Ans. It is used in for the Purification of water.

 It is used as Germicide, used to prepare plastic and synthetic rubber.

 Sodium chloride and Calcium chloride are used in medicines.

 It is used as Bleaching agent for cotton, Lenin and wood pulp.

 It is used to manufacturing of insecticides (D.D.T).

Q6. Describe the different forms of Iron.

Ans. IRON. In Daily life iron metal has many applications. It is extracted from Ore, When

 Heated to a very high temperature in a blast furnace. Due to its purity IRON is classi-

 fied into following types.

**Pig Iron**

 It is the most impure from of iron and contains impurities like phosphorus, Sulphur and Manganese. Pig iron is hard and brittle, so it is converted to cast iron and steel.

**Cast Iron**

It is obtained from pig iron. It is also brittle and cannot be welded or forged. It has low tensile strength.

**Uses**

 It is used to prepare stoves, cookers, Radiators, lamppost and railing etc.

**Wrought Iron**

It is the purest commercial form of iron. It is obtained by heating cast iron in a furnace. Impurities are removed. It is a soft, but very tough and malleable. It can be welded and forged.

**Uses**

It is used to make stain less steel. Which resists rusting.

It is used to make cutlery, scissors, saws, machinery and permanent magnets.

**WORKSHEET; 01**

**Write the common names and their uses;**

|  |  |  |
| --- | --- | --- |
| **Compounds** | **Common Name** | **Uses** |
| **Sodium-****Hydroxide** |  |  |
| **Sodium-****Bicarbonate** |  |  |
| **Sodium nitrate** |  |  |

**E-Support and Learning materials**

**Session 2020-2021**

**Subject: General Science**

**Grade 9**

**Book: Textbook of General Science, Federal Board, Islamabad**

**FIRST TERM**

**Chapter2 : Our Life and Chemistry**

**Worksheet 2: Multiple Choice Questions**

Note: Choose the correct answer. Deleting/ over-writing should be avoided

Q.1 Circle the correct option, i.e.: A/ B /C / D

1.The average percentage of Oxygen in human body is

i.16 % ii. 65% iii. 70 % iv. 55%

2. Diamond is an allotropic form of Carbon, which is

. Slightly soft ii. Softest iii. Slightly hard iv. Hardest

3. Which element is present in Chlorophyll of the green leaves of plants

 i Magnesium ii. Calcium iii. Sodium iv. Iron

4. The Ozone is present \_\_\_\_\_\_\_\_\_ kms above the surface of Earth

 i. 25 kms ii. 40 kms. iii. 31 kms iv. 35 km

5. The most abundant element found in the human body is

 i. Nitrogen ii. Hydrogen iii. Oxygen iv. Carbon

6.The percentage of Nitrogen in the air is approximately i. 78 % ii. 72 % iii. 21 % iv.25%

7. The maximum density of water is at a temperature of

i. 2OC ii. 5OC iii. 4OC iv. 0 OC

8. Which of the gas is used by plants for making food

i. Oxygen ii. Nitrogen iii. Ozone iv. Carbon dioxide

9. Which element is needed by the body for making bones and teeth

i. Calcium ii. Magnesium iii. Potassium iv. Sodium

10. Which of the following Elements is required by the Thyroid gland for proper functioning

i. Chlorine ii. Iodine iii. Potassium iv. Sodium

11. The strength of Iron is the highest as

 i. Pig Iron ii. Wrought Iron iii. Cast Iron iv. Steel

12. The common name of Sodium Hydroxide is

i. Caustic soda ii. Washing soda iii. Baking soda iv. Chile salt peter

13. Which of the following is the most important for making blood in body

i. Calcium ii. Magnesium iii. Iron iv. Iodine

14. The percentage of Carbon in the human body is

i. 16 % ii. 18 % iii. 20 % iv. 22%

15. Which gas is responsible for fermentation

I. Oxygen ii. Nitrogen iii. Carbon dioxide iv. None of these