

NEW ERA PUBLIC SCHOOL RAJBAGH
SOLVED ASSIGNMENT OF TERM-IInd, 2021

CLASS :- 5th

Topic :- AIR AND WATER

SUBJECT :- SCIENCE

Lesson no :- 13

Answer the following questions:

Q1 Why do people who climb high mountains carry oxygen cylinders?

Ans The density of the atmosphere is not the same throughout. It is thick near the ground and becomes thinner as we go up. As the air becomes thinner as we go higher, breathing becomes more and more difficult. That is why people who climb high mountains carry oxygen cylinders.

Q2 Identify the gas and give its percentage in air.

(i) the gas that forms more than three-quarters of air.

Ans Nitrogen 78%

(ii) the gas that helps your body get energy from food.

Ans Oxygen 21%

(iii) the gas that plants need to make food.

Ans Carbon-dioxide 0.03%

Q3 How will you show that air is needed for burning?

Ans We fix two small candles on a table.

and cover one of the candles with a glass. we will observe that the candle under the glass blows off after sometime. This is due to there is no air in the glass. This proves that air is needed for burning.

Q4 Explain sedimentation and decantation.

Ans Sedimentation:→ The process of separating insoluble substances which are heavier than liquid by allowing them to settle down on their own is called sedimentation.

Decantation:→ It is the process by which sedimented liquid is separated by pouring it in the other container very slowly without disturbing the settled sediments at the bottom of the container.

Q5 A solid is dissolved in water. How will you get the solid back from water?

Ans The techniques of dissolving, filtration and evaporation are used. The mixture of the two solids is added to water. The soluble solid is allowed to dissolve and the insoluble solid is filtered out. The soluble solid can then be obtained by evaporating the water.

Q6 What is distillation?

Ans Distillation is the process of separating the components or substances from a liquid.

mixture by using selective boiling and condensation.

Q7 How is water made fit for drinking in the city waterworks?

Ans In the waterworks, sedimentation and filtration are used to remove insoluble impurities and then chlorine is added in small amounts to kill germs. This is how water is made fit for drinking.

(A) Multiple choice questions.

Answers

- 1, d, all of these 2, b, Carbon-dioxide 3, (C) The air pressure inside the straw decreases.
4, (C) distillation 5, b, distillation.

(B) Mark '✓' for true and 'X' for false statements.

Answers

- 1, X 2, ✓ 3, X 4, ✓ 5, X 6, ✓

(D) Name the following.

Answers

- 1, Atmosphere 2, Troposphere 3, Stratosphere
4, Ozone gas 5, ultraviolet light.

(C) Circle the odd one out

Answers

1, Solution

2, Solvent

3, Circulation.

Page no. 4

Topic :- INTERDEPENDENCE IN NATURE

Lesson no. :- 14

Answer the following questions

Q1 What do plants get from the soil?

Ans Plants get water and minerals from the soil to make food.

Q2 In what ways is photosynthesis useful to animals?

Ans During photosynthesis, oxygen is released as a by product which is used by animals for respiration.

Q3 How do plants and animals depend on each other for oxygen and carbon-dioxide?

Ans Plants take carbon-dioxide during photosynthesis and release oxygen into the atmosphere. Animals take in this oxygen during respiration and give out carbon-dioxide which is used by plants during photosynthesis. Thus plants and animals depend on each other for oxygen and carbon-dioxide.

Q4 Many animals do not eat plants. So, why do we say that all animals depend on plants for their food?

Ans Many animals do not eat plants but they

eat other animals and depend indirectly on plants for food. So, we can say that all animals depend on plants for their food.

Q5 How are dead animals useful to plants?

Ans Dead animals add humus to the soil, which makes it fertile for plant growth.

Q6 Arrange the following in the order in which they appear in a food chain: herbivorous animals, plants, carnivorous animals.

Ans Plants → herbivorous animals → carnivorous animals.

(A) Multiple Choice questions

Answers

1, b, oxygen 2, c, sunlight 3, b, oxygen 4, d, herbivores
5, b, plant → rabbit → fox.

(B) Mark '✓' for true and 'X' for false statements

Answers

1, X 2, ✓ 3, ✓ 4, ✓ 5, X

(C) Fill in the blanks:

Answers

1, respiration 2, energy 3, Herbivores
4, pollination, dispersal 5, Food-chain

Topic :- THE ENVIRONMENT

Lesson no. :- 15

Answer the following questions.

Q1 What is pollution?

Ans Pollution is the release of substances into air, water or soil that are harmful to living things.

Q2 Mention two activities of humans that have damaged the environment.

Ans Humans have damaged the environment by:-

1. Cutting down forests to make space for cities and farms

2. Dumping waste from factories, homes and hospitals into water bodies and soil.

Q3 List three effects of air pollution.

Ans The three effects of air pollution are given below:-

1. Air pollution results in a number of diseases of the respiratory system.

2. Air pollution causes global warming.

3. Air pollution is also known to cause irritation in the eyes, lungs, nose and throat.

Q4 How is water polluted?

Ans Water gets polluted when waste from industries and farms, and sewage from homes and hospitals is thrown into

rivers, lakes, oceans and streams.

Q5 What are natural resources? Why should we conserve them?

Ans The things that we get from the environment are known as natural resources. Natural resources must be conserved, otherwise, they will disappear.

(A) Multiple choice questions

Answers.

1. b, the presence of harmful gases in the air.
2. a, increased use of public transport.
3. d, wastes from homes and factories.

(B) Name the following

1. Ecology
2. Pollutants
3. global warming
4. Acidic rain
5. natural resources.

Topic :- NATURAL CALAMITIES

Lesson no. :- 16

Answer the following questions.

Q1 What should you do when there is an earthquake?

Ans We should run out of the building as fast as we can.

Q2 How do people respond to flood warnings?

Ans People move their animals and other belongings to safer places. They make their

roofs strong or sometimes move away to safer places themselves.

Q3 Doctors also accompany rescue workers when they go to flood-affected areas. Why is this necessary?

Ans Doctors are put on duty since there is usually an outbreak of diseases such as cholera, gastroenteritis and typhoid. There may even be cases of snake-bite.

Q4 How is food and water supplied to flooded villages?

Ans When floods occur, rescue workers are immediately put into action. These workers could be people from community or government agencies. These workers airdrop food, water and medicines to the flooded villages.

Q5 What happens during a drought?

Ans During a drought, reservoirs, ponds and lakes dry up. Wind erosion takes place. Poor monsoon rains cause the groundwater level to drop sharply. Farmers do not have enough water for their crops. Crops die and there is less food. Large amounts of money are needed to deal with drought, as food and water have to be distributed to a large number of people and for the livestock.

Q6 What should we do as a nation after a

natural calamity?

Ans We should come together as a nation and face problems boldly.

(A) Multiple Choice questions.

Answers.

- 1., c, go out in the open 2., b, earth shakes
3., a, Scarcity of rain 4., c, deforestation.

(B) Fill in the blanks.

- 1., Event 2., cyclone 3., drought 4., famine
5., flood.

(C) Mark '✓' for true and 'X' for false statements.

Answers.

- 1., X 2., X 3., ✓ 4., ✓

(D) Complete the puzzle with the clues given.

Answers.

- 1., Aftersho@k
2., Earthqu@ke
3., flood
4., volc@no
5., Fa@ine
6., tsunam@
7., Drought@
8., cyclone.

Word formed: Calamity

YEARLY EXAMINATION → Page no. 147

Answer the following questions:

Q1 What is used to cut off the flow of blood from a heavily bleeding wound?

Ans Tourniquet is used to cut off the flow of blood from a heavily bleeding wound.

Q2 Object A weighs 3kg and has an upthrust of 2kg in water. Object B weighs 2kg and has an upthrust of 3kg. Which object will float and which one will sink in water?

Ans Object A will sink because weight of an object is more than the upthrust. $\text{Weight } 3\text{kg} > \text{upthrust } (2\text{kg})$. Object B will float because weight of an object is less than the upthrust. $\text{Weight } 2\text{kg} < 3\text{kg (upthrust)}$.

Q3 If you throw away an empty plastic bottle, it will pollute the land. If you burn it, it will cause air pollution. Can you think of a way of avoiding both?

Ans Plastic bottles should be reused as far as possible. They should also be recycled to make other things.

Q4 Why should all public swimming pools have a lifeguard on duty?

Ans All public swimming pools have a lifeguard on duty because there is a possibility of drowning.

Q5 Imagine that the sun does not rise at all for one week. How do you think this will affect living things.

Ans In the absence of sun, photosynthesis will stop. All the organisms and plants will die due to lack of oxygen and food.

Q6 How will planting more trees reduce global warming?

Ans Trees help to reduce global warming. As trees grow, they help stop climate change by removing carbon-dioxide from the air, storing carbon in the trees and soil, and releasing oxygen into the atmosphere.

PRACTICE THE CHAPTER WISE DIAGRAM ALONG WITH LABELLING OF THE FOLLOWING.

1. Layers of atmosphere — Page no. 110
2. Two living things — Page no. 122
3. Two Non-living things — Page no. 124
4. Volcanic eruption — Page no. 137

