

BRAIN INTERNATIONAL SCHOOL

Science Assignment

Class VII

July'21

CHAPTER6: PHYSICAL AND CHEMICAL CHANGES

Read the passage given below and answer the questions that follow:

Some changes are beneficial to us whereas some are harmful to us. For example, ripening of fruits is a beneficial change. So, we try to make the ripening of fruits faster by artificial methods. On the other hand, rusting of iron is a harmful change. So, we try to prevent rusting of iron objects by various methods (such as painting the iron object, etc.). The change in a substance does not occur on its own. There is always a 'cause' which brings about a change in a substance.

Q1. State whether the following statements are TRUE or FALSE.

- (a)Cutting a log of wood into pieces is a chemical change.
- (b)Formation of manure from leaves is a physical change.
- (c)Condensation of steam is not a chemical change.
- (d)Iron pipes coated with zinc do not get rusted easily.

Q2. Give two methods of preventing the rusting of iron.

Q3. When an object made of material P is kept immersed in the blue coloured solution Q, then a chemical change takes place to form a green coloured solution R and a brown layer of substance S is deposited on the object. P is used for making nails and S is used for making electric wires.

- (a)What could the material P be?
- (b)Name the blue coloured solution Q.
- (c)Name the green coloured solution R.
- (d)What could the substance S be?

Q4. Explain why explosion of a firework such as a cracker is said to be a chemical change.

CHAPTER7: WEATHER, CLIMATE AND ADAPTATIONS OF ANIMALS TO CLIMATE

Read the passage given below and answer the questions that follow:

There are many different types of weather. Some types of weather are : hot, cold, sunny, cloudy, foggy, dry, humid, windy and rainy. The weather at a place is generally not the same on any two days. The weather at a place changes day after day and week after week. Actually, weather is such a complex phenomenon that it can change even over very short periods of time. For example, it can be sunny weather in the morning but suddenly clouds may appear from nowhere and it can become cloudy. And if

it starts raining, then it becomes rainy weather. It is also possible that a heavy rain may vanish in a matter of minutes and give way to bright sunshine. Weather is never constant anywhere.

Q1. What is the difference between weather and climate?

Q2. Some of the adaptations in animals are given below:

- (a) White fur
- (b) Diet heavy on fruits
- (c) Strong tails
- (d) Layer of fat under skin
- (e) Thick skin
- (f) Strong sense of smell
- (g) Need to migrate
- (h) Long and large beak

Which of these adaptations are for:

- (i) polar regions?
- (ii) for tropical rain forests?
- (iii) for polar regions as well as for tropical rainforests?

Q3. What are migratory birds?

Q4. A Polar bear is white. How does this white colour help in survival of polar bear in polar region?

CHAPTER 8: WINDS, STORMS AND CYCLONES

Read the passage given below and answer the questions that follow:

The layer of air above the earth is called atmosphere. The atmosphere contains a tremendous amount of air. About 99 per cent of atmosphere is made up of just two gases : nitrogen and oxygen. The amount of water vapour in the atmosphere depends on temperature and humidity. The earth's atmosphere extends to a height of several hundred kilometres above the earth but most of the air lies within about 10 kilometres of the earth's surface. The atmosphere exerts a pressure called atmospheric pressure due to the weight of air contained in it.

1. Odisha was hit by a cyclone in the year

- (a) 1998
- (b) 1999
- (c) 2000
- (d) none of these

2. Cyclone warning is issued

- (a) 20 hrs in advance
- (b) 12 hrs in advance
- (c) 24 hrs in advance
- (d) none of these

3. Cyclones can be

- (a) destructive
- (b) useful
- (c) both (a) and (b)
- (d) none of these

4. Wind currents are generated due to

- (a) uneven heating on the earth
- (b) even heating on the earth
- (c) cooling on the earth
- (d) none of these

5. Hurricane is the name of cyclone in

- (a) American continent
- (b) Japan
- (c) Both (a) and (b)
- (d) None of these