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Answer 3

a. Causes of Global Warming

Global Warming
Global warming is the increase in average temperature of the earth.

Causes of Global Warming

1. Human-Induced causes

a. Increase in fossil fuel consumption

Fossil fuel consumption is the major cause of global warming. The reason is that fossil fuel contains hydrocarbons. When these are used in vehicles ^{or industries} as ^{sources} energy, they emit CO₂ and CO. CO₂ and CO form a layer over the earth, trapping heat of the earth. As a result, temperature of the earth increases.

b. Increasing use of fertilizers

Use of nitrogen based fertilizers such as urea is another cause of global warming. It contains methane gas that is a green house gas.

gas that depletes ozone layer.
Ozone layer protects the earth
from solar radiation by blocking
it to reach the earth surface.

1. Deforestation

The increasing scale of deforestation
causes global warming at a
large scale. Trees act as carbon
sinks and absorb CO₂. When
they are cut at large scale,
there is no source to absorb
them. As a result, temperature
of the earth increases.

2. Natural Causes

1. Volcanic Eruption

During volcanic eruption, high
mass of gas is emitted from
volcanoes. When molten rocks
are inside the earth, they are
called magma. It contains high
concentration of gases. When it
is escaped and comes out
of the earth crust, it is
called lava. Lava contains large
proportion of gases. These gases
increase temperature of the
earth.

b. Solar eclipse

When moon comes between
the earth and the sun, it casts

shadow of itself on the earth, it is called solar eclipse.

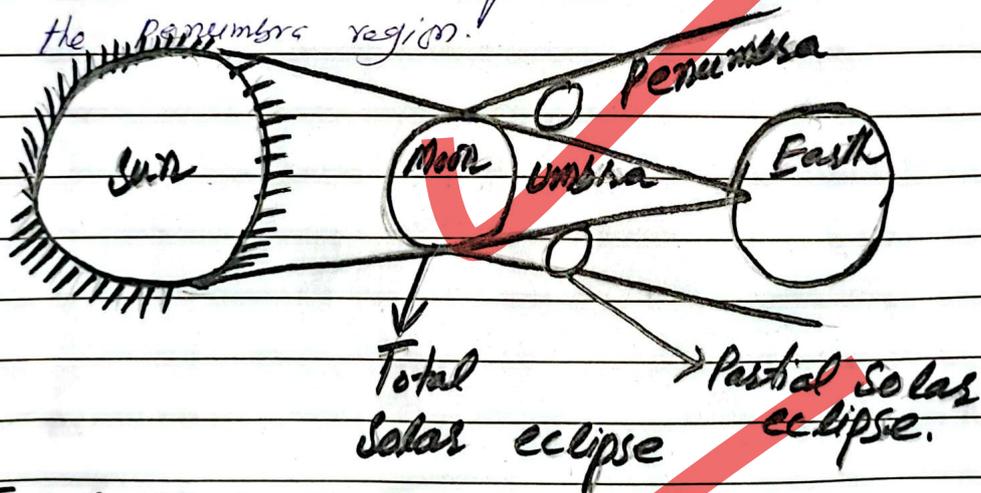
Types

1. Partial Solar Eclipse

2. Total Solar Eclipse

1. Partial Solar Eclipse

When moon comes between the sun and the earth and partially blocks sunrays from reaching the earth, it is called partial solar eclipse. In this, moon comes in the penumbra region.



2. Total Solar Eclipse

In the total solar eclipse, moon comes in the umbra region which is a cone shaped shadow of moon that totally block the sunrays from reaching the earth.

Lunar Eclipse

When the earth comes between the sun and the moon, it casts its shadow on the moon, it is called lunar eclipse.

Types

1. Partial Lunar Eclipse
2. Total Lunar Eclipse

1. Partial Lunar Eclipse

When the earth comes between the sun and the moon, and partially blocks the sun rays reaching the moon, it is called partial lunar eclipse.

2. Total Lunar Eclipse

When the earth comes between the sun and the moon, and completely blocks the sun rays reaching the earth surface, it is called total lunar eclipse.

C. Cyclones

It is a huge mass of air rotating around a low pressure centre. It brings strong wind and heavy rainfalls.

Types

1. Tropical cyclones
2. Mid Altitude cyclone

1. Tropical cyclone

It forms over water oceans in the tropical region.

It is brought by ocean

currents.

2. Mid. Altitude Cyclone

- It is formed between the tropical and polar regions (30° - 60°).
- It is formed by fronts.

Effects

- Environmental effects
- Humanitarian effects.

a. Environmental effect

- Cyclones uproot trees and destroy crops.

b. Humanitarian effects.

- Causes deaths.
- Destroy buildings and bridges. Therefore, results in economic losses for humanity.

Tsunami

Tsunami is the fast movement of ocean waves from the seabed to the ocean surface.

It involves the movement of the whole body of the ocean waves.

Causes

- Earthquakes
- Volcanic Eruptions

Earthquakes and volcanic eruptions causes water to rise from the seabed to the surface of oceans.

Effects

→ Tsunami causes coastal floods, washing away nearby homes, trees and crops.

→ It causes losses to human lives

d. Food Preservation with Examples

Food Preservation

Food preservation is a method in which food are saved from going bad.

Methods

1. Boiling

It is a traditional method in which food such as meat is boiled to remove fats from it in order that microbes do not decompose it as fats are easily decomposed.

2. Drying

In this method fruits are dried under the sun light. In this way, water is evaporated from it. Therefore, it is not attacked by microbes.

3. Adding Chemicals to it

Chemicals such as sodium is added to food. Foods such as vegetables are added sodium to. Therefore, they are preserved from bacterial decomposition.

4. Freezing

Microbes such as bacteria need moderate environment to flourish. Freezing inhibit its survival. Hence, freezing foods such as vegetables and fruits are protected from bacterial decomposition.

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Answer 2

b. Solar System

Solar system is a gravitational bound system of sun, planets and their moons.

→ Sun → It contains 99.87 of the mass of solar system. All planets rotate around it in an elliptical plane.

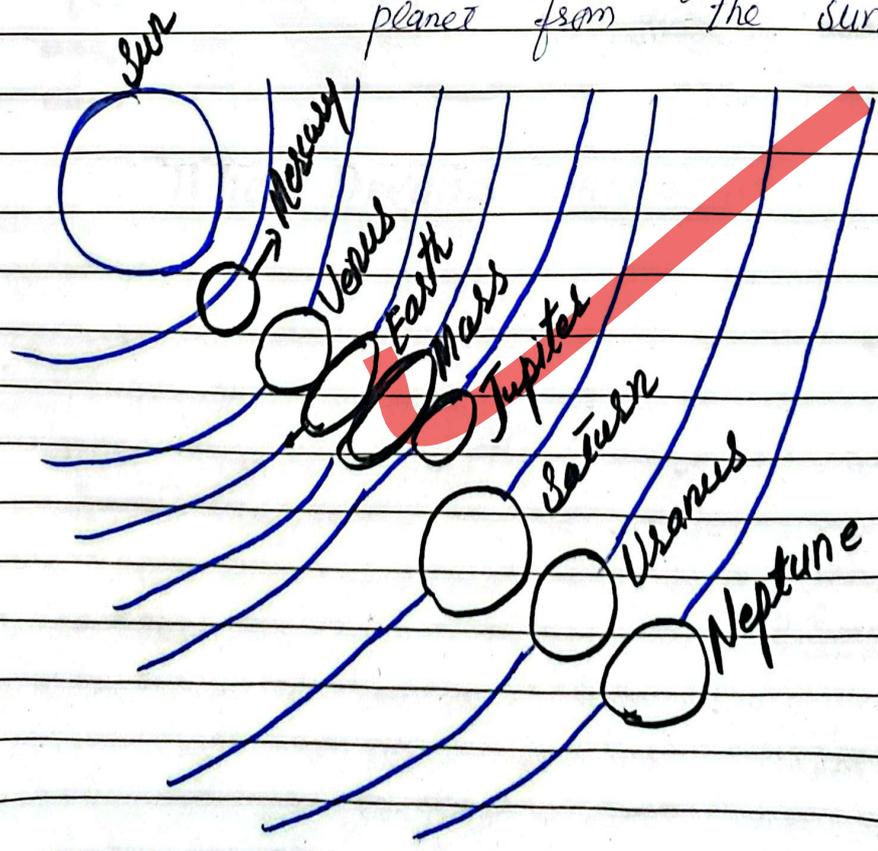
→ Planets

Solar system contains eight planets and their moons.

These are the followings:

Planets.

- Mercury → closest to the sun → No atmosphere
- Venus → Brightest and hottest planet
- Mars → It is a red earth. Contains → Canyons, valley & mountains.
- Earth → It contains life-sustaining elements such as O_2 and nitrogen + water
- Jupiter → Fastest planet. More than 90 moons in it. It has red spots.
- Saturn → It is known for its beautiful rings.
- Uranus → Uranus has faint rings. It has blue colour due to the presence of methane gas.
- Neptune → It is farthest planet from the sun.



Importance of Balanced Diet

→ Balanced diet contains sufficient amount of lipids, carbohydrates, proteins, minerals, fibres and vitamins.

How Balanced Diet is Important

