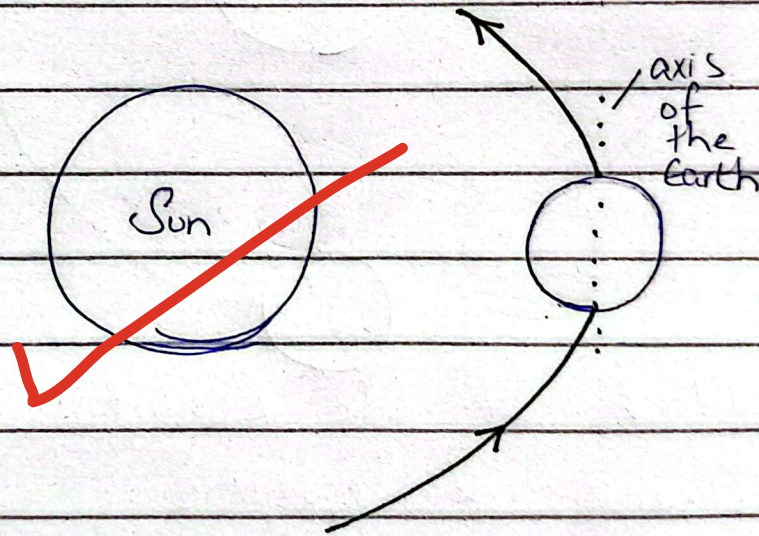


Name: Noor Shah

GSA

Q1 Explain process of rotation and
(b) revolution of Earth.

Rotation of Earth: Rotation of the Earth is the movement of the Earth on its axis (an imaginary running in the centre of the Earth from the North pole to South pole) in a counter clockwise direction.



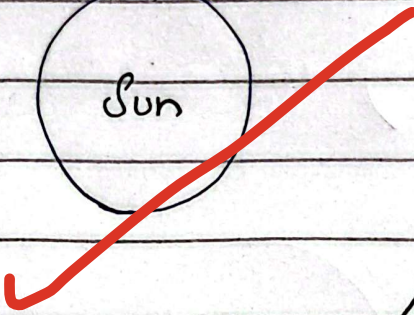
Effects of the Rotation of Earth,

1. Change of seasons based on the southern or northern hemisphere facing the sun.

2. Change of night and day

3. Different climates in different areas of earth

around the
inter clockwise
one complete



between head

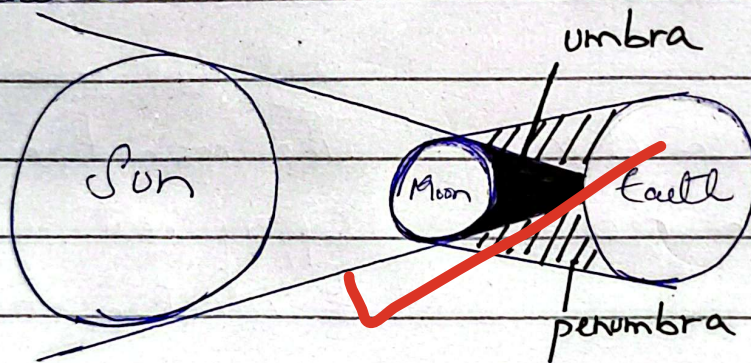
Effects of the Revolution of Earth

- Change
areas
Larger
hemisp
Larger
hemisp

(c) Differentiate between solar and lunar eclipse.

Solar Eclipse definition

Solar eclipse is an astronomical event that occurs when the Sun, the Moon and the Earth are in one line. The Moon is between the Sun and the Earth and forms a complete shadow (umbra) or penumbra (partial shadow) on Earth.

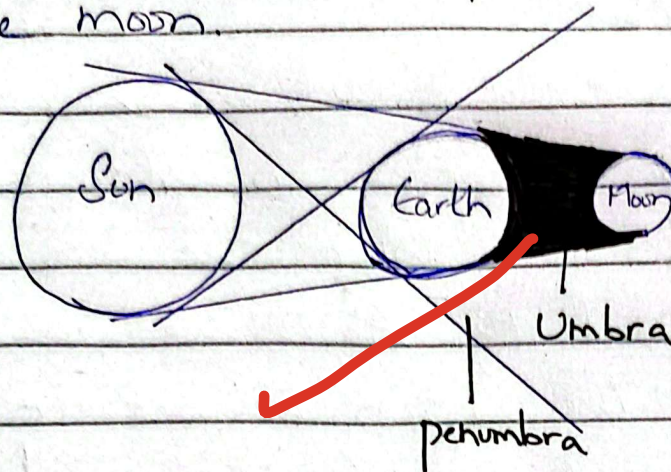


Solar Eclipse

Lunar Eclipse definition

Lunar Eclipse is an astronomical event that occurs when the sun, moon and earth are in one line and the Earth is blocking the rays of the sun on the moon, forming a complete shadow (umbra).

or partial shadow (penumbra) on the moon.



Solar Eclipse

1. The moon is between the sun and the earth

2. The moon does not turn red.

3. Cannot be viewed from any place on earth.

4. Only a portion of the earth can be in moon's umbra

5. More common

Lunar Eclipse

The earth is between the sun and the moon.

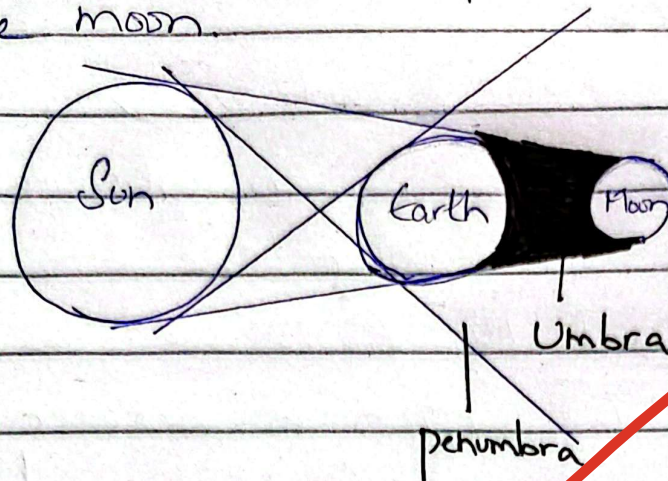
The moon turns coppery red due to refraction of sun's rays by earth's atmosphere on moon.

Can be viewed from any place on earth.

The whole of the moon can be in earth's umbra.

Less common

or partial shadow (penumbra) on the moon.



Solar Eclipse

1. The moon is between the sun and the earth

2. The moon does not turn red.

3. Cannot be viewed from any place on earth

4. Only a portion of the earth can be in moon's umbra

5. More common

Lunar Eclipse

The earth is between the sun and the moon.

The moon turns coppery red due to refraction of sun's rays by earth's atmosphere on moon.

Can be viewed from any place on earth

The whole of the moon can be in earth's umbra

Less common