

Date: _____

Day: _____

GSA

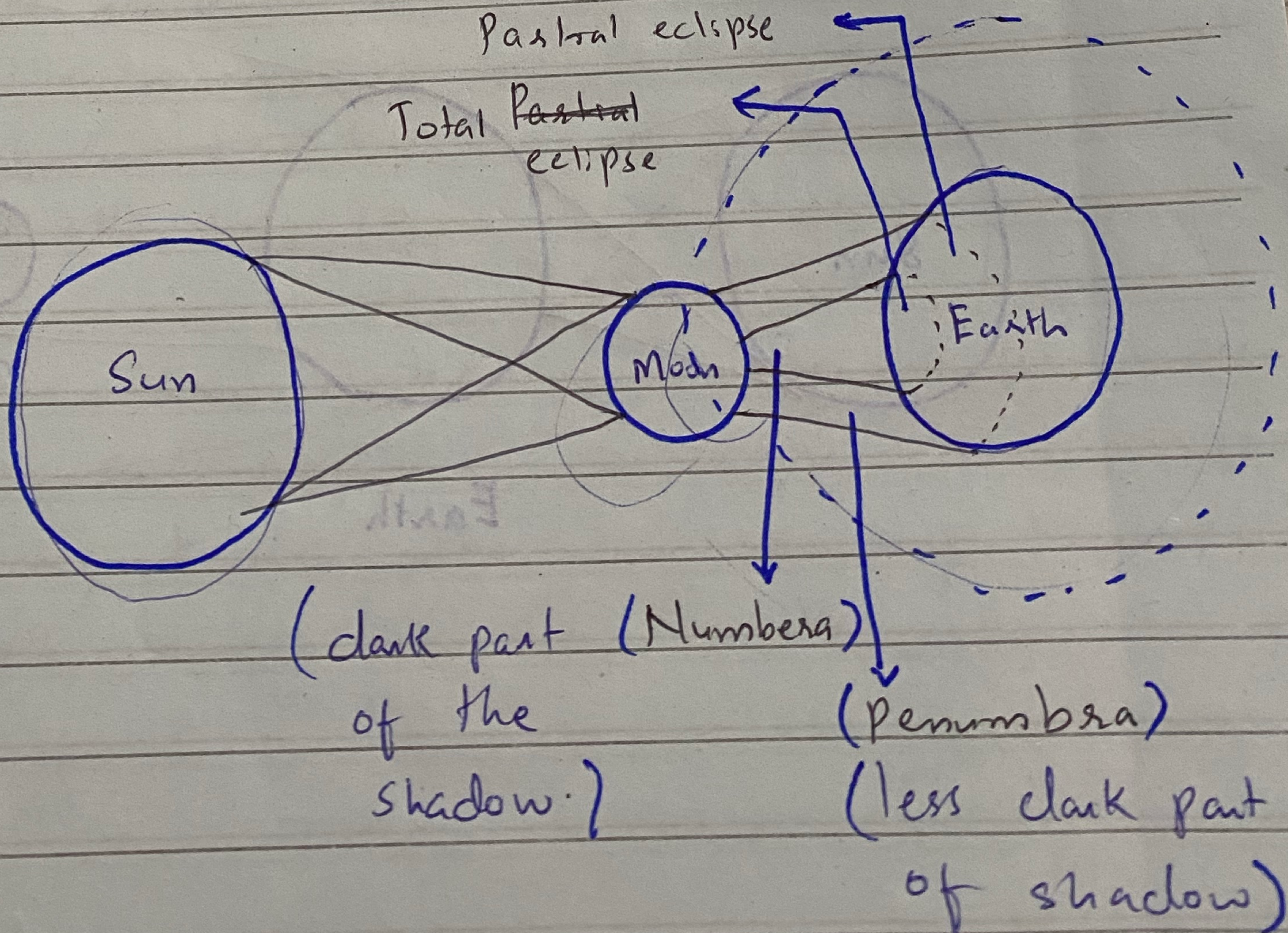
Q. Differentiate between the occurrence of Lunar and Solar Eclipse? (11 min)

Ans

1)

SOLAR ECLIPSE

“Solar eclipse occurs when the ^{new} moon comes in between the sun and the earth, and blocking the sun's rays coming towards the earth, causing its shadow on earth.”

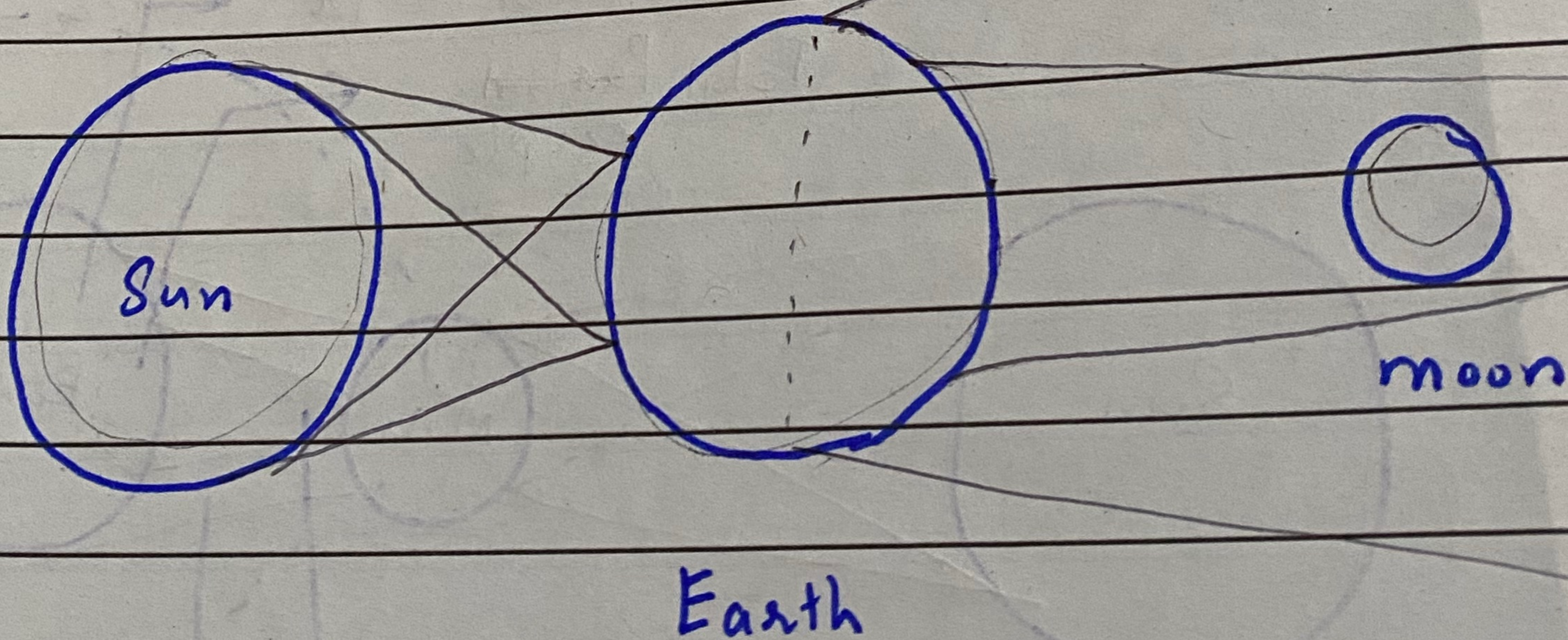


LUNAR ECLIPSE

2)

"Lunar eclipse occurs when the earth comes in between the sun and the moon, and blocking the sun's rays coming towards the moon and casts its shadow on the moon."

Lunar Eclipse



Date: _____

Day: _____

3) Main difference between the concurrence of the Lunar and Solar Eclipses.

Solar Eclipse

Lunar Eclipse

1) It occurs when the moon comes in between the sun and the earth

It occurs when the earth comes in between the sun and the moon.

2) It occurs in new moon

It occurs in full moon.

3) It occurs when the moon casts its shadow on the earth

It occurs when the earth casts its shadow on the moon.

4) The moon blocks the sun's rays coming towards the earth

The earth blocks the sun's rays coming towards the moon.

Date: _____

Day: _____

Q.

Briefly Explain what effects are produced due to Rotation and Revolution of Earth? (11 min)

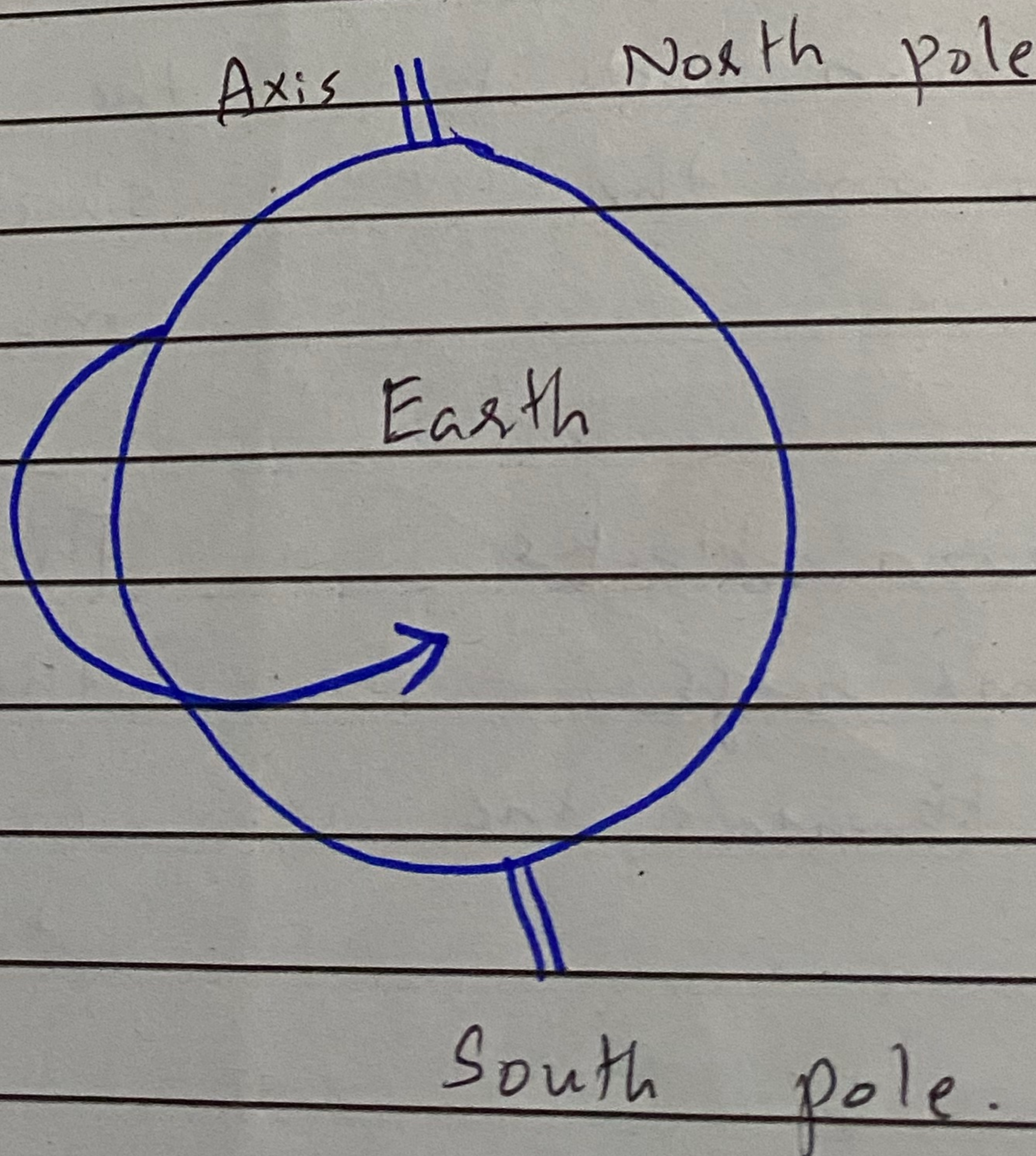
Ans

1)

ROTATION OF EARTH

"The movement of the earth along its own axis from west to east."

The earth's axis, is an imaginary line tilted at 66.5° with its orbital plane.



Day: _____

Date: _____

2) EFFECTS OF EARTH'S ROTATION

- 1) It is responsible for the diurnal cycle of day and night.
- 2) It causes temperature and humidity changes.
- 3) It causes winds and currents.
- 4) It causes tides in oceans.

3) REVOLUTION OF EARTH

"The movement of the earth around the sun in a fixed orbit."

4) EFFECTS OF REVOLUTION OF EARTH

- 1) It causes perihelion and Aphelion.

Date: _____

Day: _____

Perihelion is the point where the earth is closest to the sun.
Aphelion is the point where the earth is farthest from the sun.

2)

It causes the changes in day and night's lengths.

When the length of Day and night is equal at equator, it is called equinox.

When the length of day and night vary at the Southern and Northern hemisphere, it is called solistices.

Types of Equinox

Spring Equinox

Autumn Equinox

Types of solistices

Summer solistices

Winter solistices.

Date: _____

Day: _____

3)

The equinox and solstices
cause the change of
seasons.

