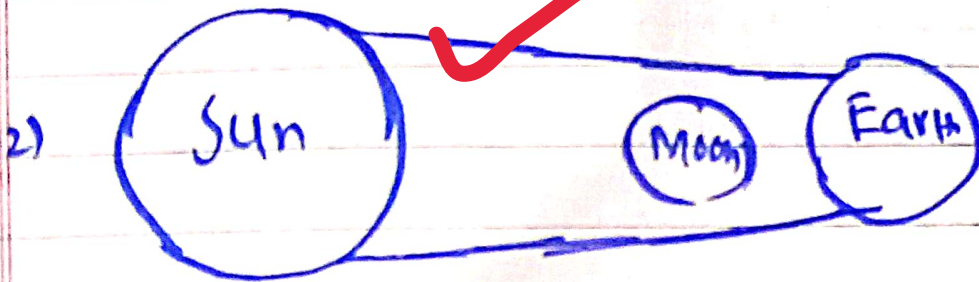


Date: _____

Difference between the occurrence of lunar and solar eclipses?

Solar Eclipse:

1) Solar Eclipse is a process where the moon comes between the sun and Earth.



3) Solar Eclipse occurs when a new moon is formed.

Three Types of Solar Eclipse

Total Solar Eclipse

Partial Solar Eclipse

annular Eclipse

Date: _____

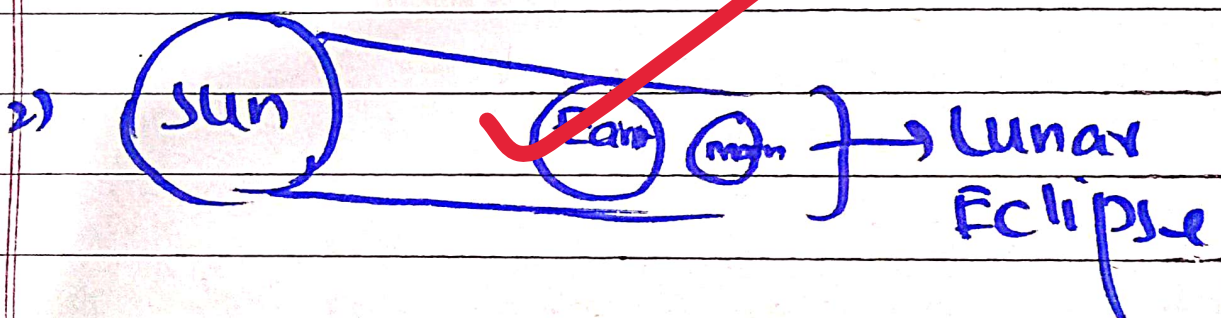
a) → **Total Solar Eclipse:** When the moon comes complete between sun and earth.

b) → **Partial Solar Eclipse:** When the moon partially hide the earth from the sun.

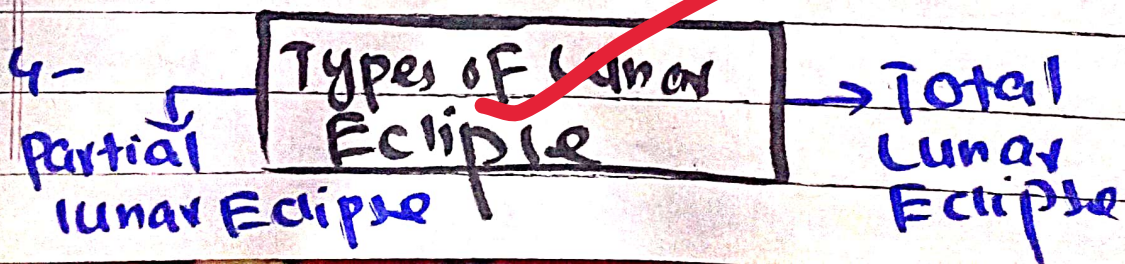
c) → **Annular Eclipse:** In such Eclipse the sun appears like a **ring shape**.

Lunar Eclipse:

1) Lunar eclipse occurs when the earth comes between sun and moon.



3) Lunar eclipse occurs when the moon is complete.



Attempt the differences qs in a tabular form by giving multiple difference points

Date:

a) → **Total Lunar Eclipse**: It occurs when the earth comes complete between sun and moon.

b) → **Partial Lunar Eclipse**: It occurs when the earth comes partial between sun and moon.

7.5

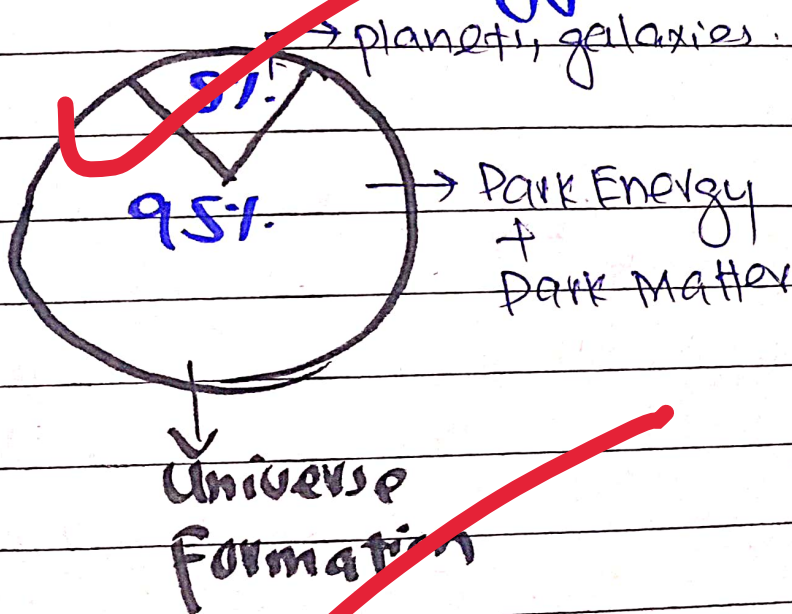
Date: _____

Explain the term Dark Energy and Dark Matter.

Dark Energy and Dark Matter:

Around 5% of our universe is made of planets, galaxies etc.

Around 95% is made of Dark matter and Dark Energy.



Scientists believe that dark energy and dark matter are transparent and light can easily pass through it.

When it discovered first:

In 1920, a scientist was doing experiment on galaxy where he found

Date: _____

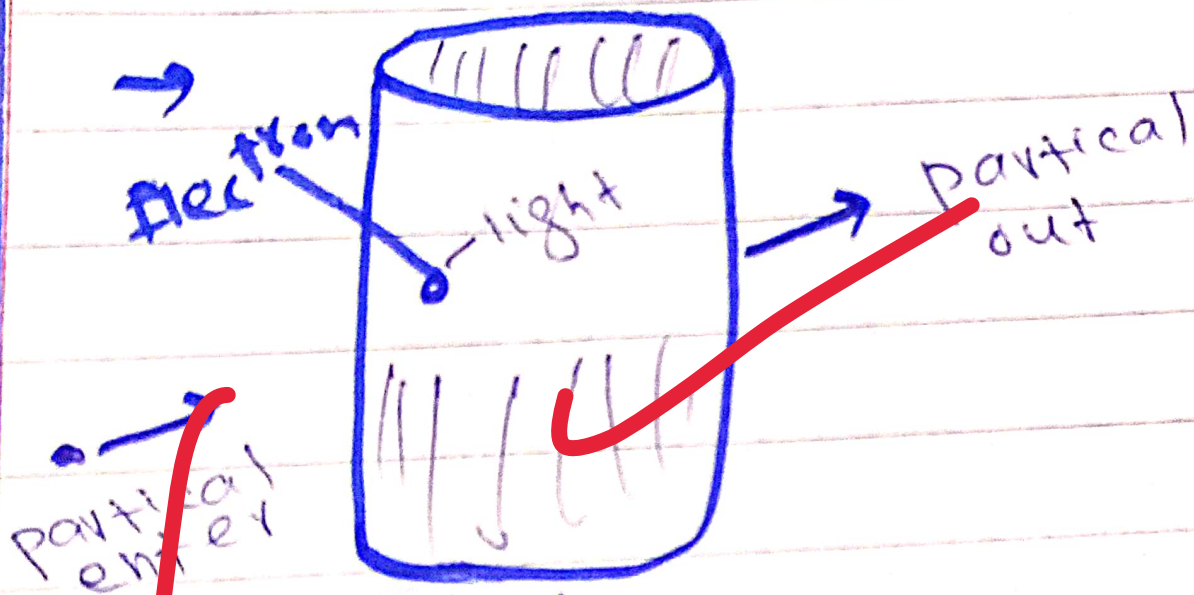
There are some force or matter which are invisible but playing critical role in the expansion of galaxy. He named it dark energy and dark matter.

Difference Between Dark Energy and Dark Matter

Dark energy comprises almost 68% of the universe, it helps the universe to expand and keep moving. While dark matter comprises around 24% of universe. Dark matter does not emit absorb or reflect light, making it undetectable through traditional means.

Recent Development on the finding of Dark Energy and Dark Matter:

Recently a **XENON** experiment occurred in Italy. Which claimed that they have discovered the dark matter through experiment named as **chameleon** ^{screening} ↑



chameleon screening
Method.