

GENERAL SCIENCE AND ABILITY

(PART - II)

SECTION - A

QUESTION : 04

(a)

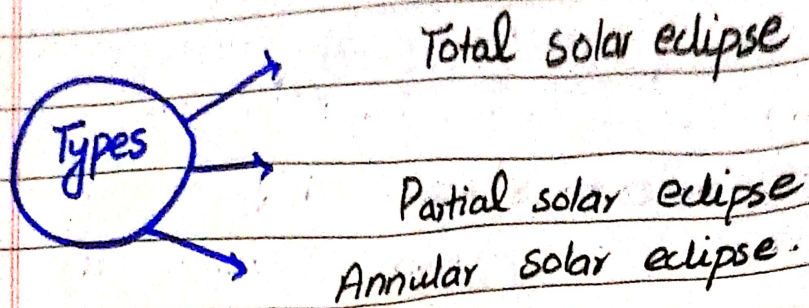
Briefly explain solar and lunar eclipse with diagram.

SOLAR ECLIPSE:

“When ^{moon} earth comes in between the sun and ^{earth} moon, then no light falls on moon due to the larger size of earth. This phenomenon is known as solar eclipse”.

- This phenomenon is mostly formed by the larger size of earth that blocks light towards moon.
- Solar eclipse usually formed due to the movement of earth when it comes between sun and the moon.

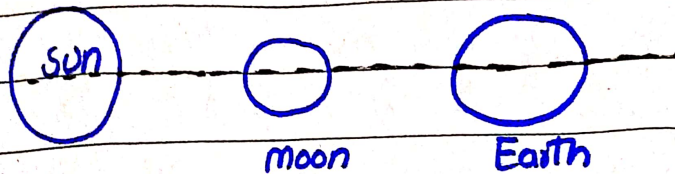
TYPES OF SOLAR ECLIPSE



•) Total Lunar eclipse.

When the moon aligns exactly in the same position as the sun and earth.

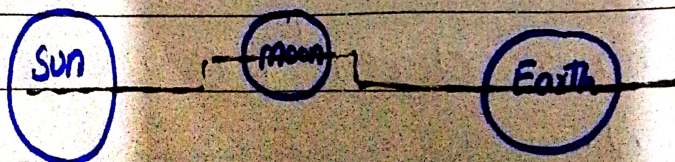
This phenomenon is known as "total lunar eclipse." Also called "Anumbera."



•) Partial solar eclipse.

When the moon does not align exactly as position of sun and moon earth.

This phenomenon is known as partial solar eclipse.

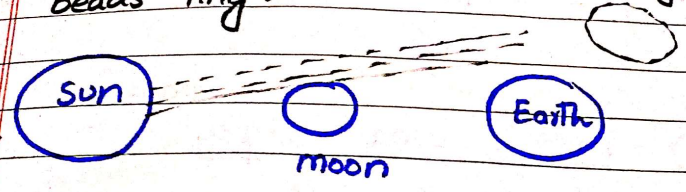


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Also called as "Pneumbra"

→ Annular Solar Eclipse:

Due to the smaller size of moon, when it comes between earth and sun, some light or rays escape from the sides due to which light falls on earth. This phenomenon is known as "Annular solar eclipse". It forms a shadow that is known as "Beads ring".



LUNAR ECLIPSE:

"When earth comes in between the sun and moon, the phenomenon is known as lunar eclipse."

- Due to the larger size of earth, no light falls on moon, resultantly lunar eclipse occurs.

TYPES OF LUNAL ECLIPSE:

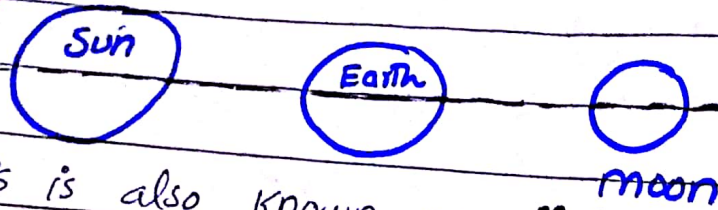
Types

Total Lunar eclipse

Partial Lunar eclipse

•) Total Lunar eclipse:

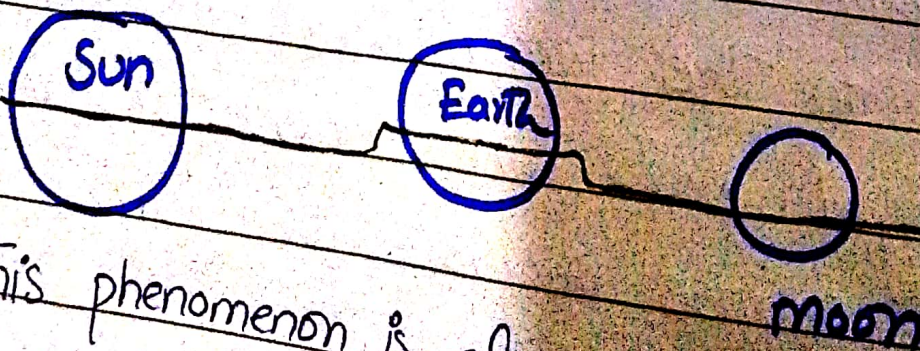
When the earth comes in between the Sun and moon, sometimes all three bodies aligned. This phenomenon is known as "total Lunar eclipse."



This is also known as "Anumbra."

•) Partial Lunar eclipse

When earth comes in between sun and moon but all three bodies did not align in one form. This phenomenon is known as "Partial lunar eclipse"



This phenomenon is also known as "pnumbra."