

General Science

Q. What is Astronomy? Define Astronomical system of unit?

Astronomy

Q. According to Astronomical System of unit

It is a study of the universe and objects it contains smallest particles to largest structure

A. According to NASA:

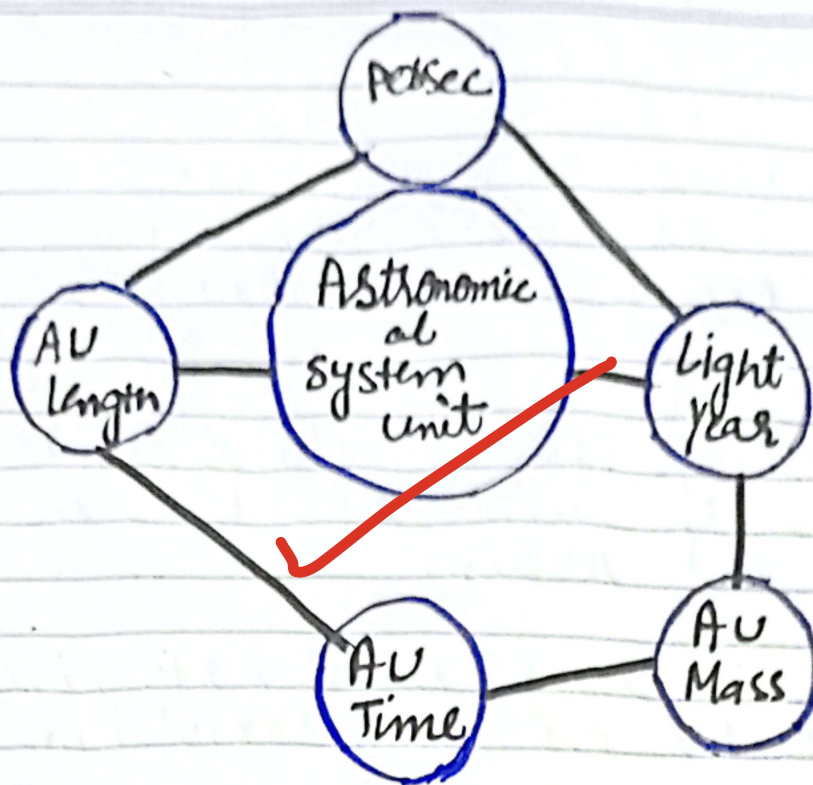
Astronomy is a study of stars, planets, galaxy and space.

According to European Space Agency

Astronomy is a science which deals with the study of universe and celestial objects it originate the material which present outside the earth's surface atmosphere.

Astronomical System of unit

- It is adopted for the measurement of astronomical bodies
- It is three-dimensional structure which include length, mass and time



1- Astronomical system for time

- It is symbolized by letter "D"
- In Astronomical system for time in a day is equal to 86,400 Second
- 365.25 day are equal to Julian year.

2- Astronomical system for length

Astronomical system of length used to measure distance. which is defined by the average distance between Sun and earth.

Average distance between earth and Sun is 150 million Km which is equal to 149,597,870,700 meters and 93 million miles

$$1 \text{ AU} = 149,597,870,700$$

3. Astronomical system for mass

Astronomical system of mass is known as solar mass which is equal to $1.98892 \times 10^{30} \text{ Kg}$.

4. Light Year

It is defined by the distance of light travel in one year in vacuum.

which is equal to 5.8×10^{12} miles,
 $63,240 \text{ AU}$ and $9.46058 \times 10^{12} \text{ Km}$.

5. Parsec

It is use to measure distance
It is equal to 3.26 light years
and 3.058×10^{13} Kilometers.