

2018

Q No# 2 (a)

Different methods to estimate the age of Universe:

The study of universe is called Astronomy. According to Astronomers there are different evidences from which age of the universe can be determined.

- (i) First Evidence: Presence of wavelengths.
- (ii) Second Evidence: Presence of radiations.

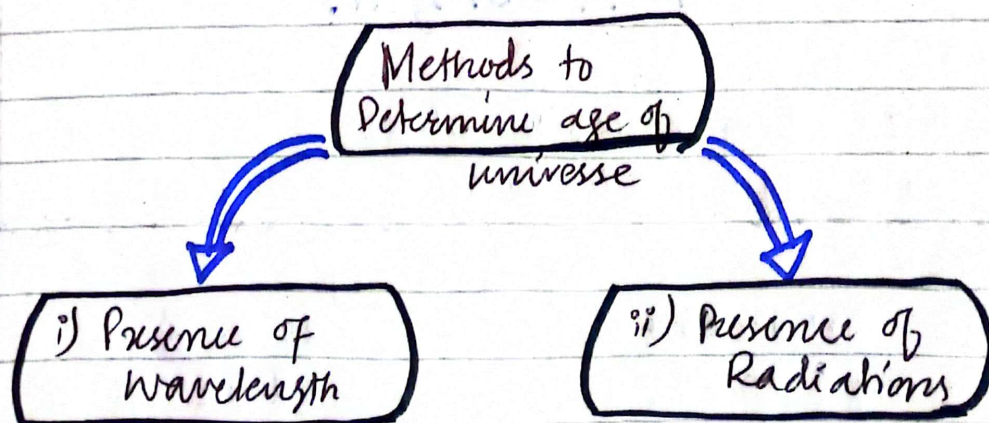
(i) First Evidence: Presence of wavelength:

Most Astronomers believe that from wavelengths, the age of the universe can be determined. Therefore, According to Astronomers, if the object is very far away from the planet (earth) then, It gives the evidence of determining the age of universe. The objects which are far away

from Earth have larger wavelength of Red light.

(iii) Second Evidence: Presence of Radiations:

The second evidence that were derived by Astronomers to determine the age of universe is Cosmic Radiations Background. According to them, these cosmic radiations are present in space everywhere, and is thought to be the radiations left at the time of big bang expansion, so, the age of the universe can be determined through these two evidences.



2019

Q No # 2 (a)

Disease and deficiency
of vitamin:

	Disease caused due to lack of vitamin	Name of the vitamin
(i)	Poor night vision	Vitamin A
(ii)	Bleeding gums	Vitamin C
(iii)	Rickets in children	Vitamin D
(iv)	Beri - Beri	Vitamin B ₁
(v)	Anemia	Vitamin K

2021

Q No # 2 (c)

Most Popular theory about the Origin of the Universe:

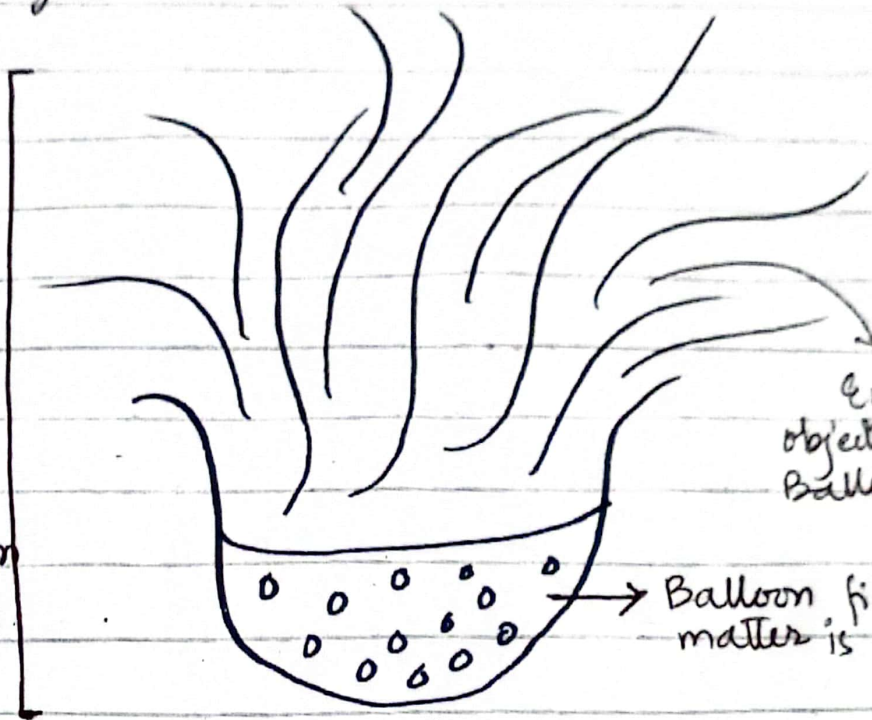
The most popular and accepted theory about the origin of the universe is called Big Bang Theory. According to Astronomers universe began around 13.7 billion years ago.

Big Bang Theory:

According to this theory, whole of the universe was contained in a small balloon. The balloon was filled with gases, Hydrogen and Helium. That balloon was very dense and hot. 14.7 billion years ago this balloon was exploded. It was considered as Singularity. Afterwards, from this Singularity, planets, dwarf planets, solar system, satellites and other objects of universe has

emerged.

13-7
billion
years
ago
Explosion
occurs



Explosion of
objects inside
Balloon occurs

Balloon filled with
matter is exploded

(Big Bang Explosion)