



Qa Define most accepted theory of universe. Also give evidences and opposite views.

Answer

Universe

"A huge mass of mixture collection of stars, galaxies, and planets, known as universe."

Universe is a sum of stars, galaxies, and planets. Hence, sum of all celestial bodies, known as universe.

Universe



Celestial Bodies

Stars

Galaxies

Planets

numbering or ble?



Theory of Universe: Big Bang Theory

The most accepted theory of the universe is 'Big bang' theory.

There are other theories as well, but, 'big bang' theory is the most accepted theory.

Following is detail of the theory:

Big Bang Theory

Singularity

Expansion

Formation

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i) Singularity model

Universe is like a bubble. It is dense and hot.

ii) Expansion of singularity

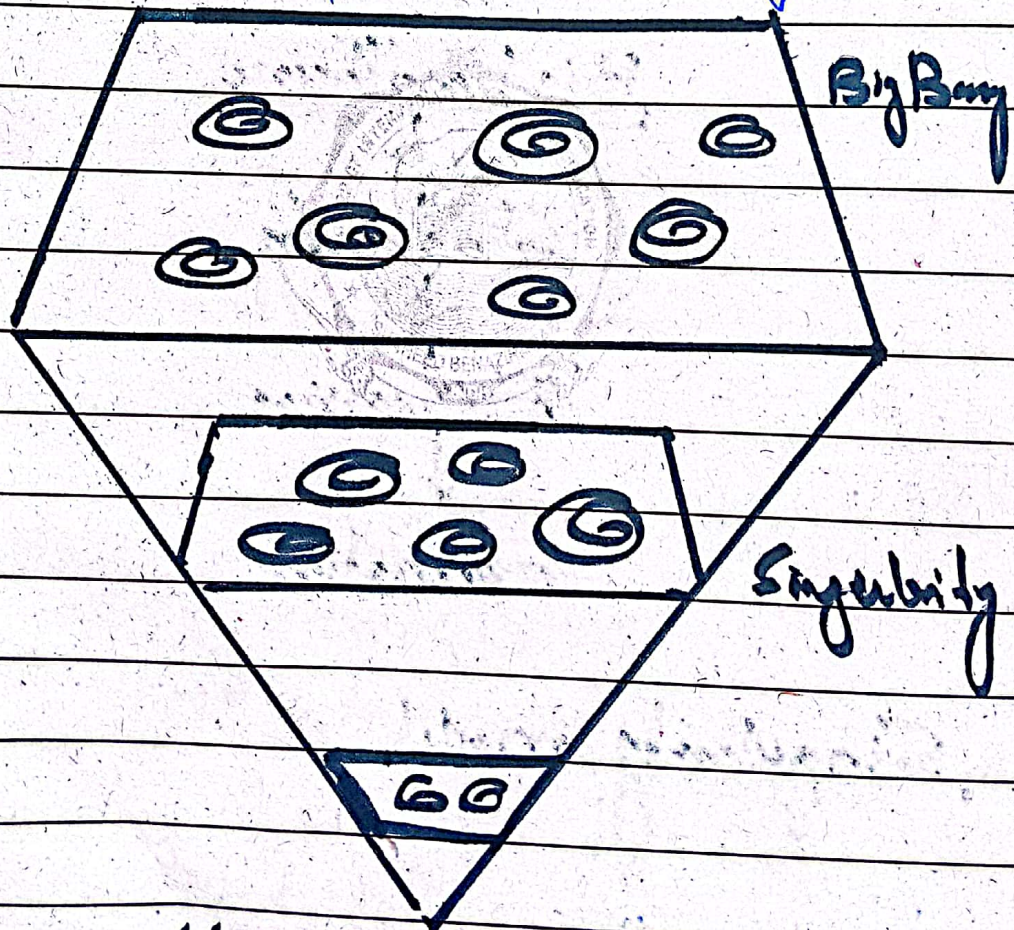
Morever, 'single bubble'



is expanded when force is applied. Hence, first substance is formed, known as 'Quartz'.

ii) Formation of the universe.

All 'quartz' combine to expand with respect to stars, planets and galaxies.



• Universe Formation

Hence, universe is formed.

Evidence theories of Big Bang

Following are evidences:

i) Hubble theory

Hubble supported the ideas of 'Big Bang' theory. He agreed with the expansion of universe, but size of galaxies remain same.

ii) Cosmic Microwave Radiation

Cosmic radiation also support Big Bang's. These radiations are filling all spaces in the universe.

Theories against Big Bang

Following are opposites:

i) Steady State theory

According to Steady State, universe is an infinite. Hence, it is neither began nor will end.

ii) Religious Theory



According to Religious theory, God has created universe from nothing.

Cosmic Microwave

Hubble

supporters

Big Bang Theory

opponents

Religions

Steady State

Q b) Define Dark energy and dark matter.

Dark Energy

"Dark energy is repulsive of galaxies."

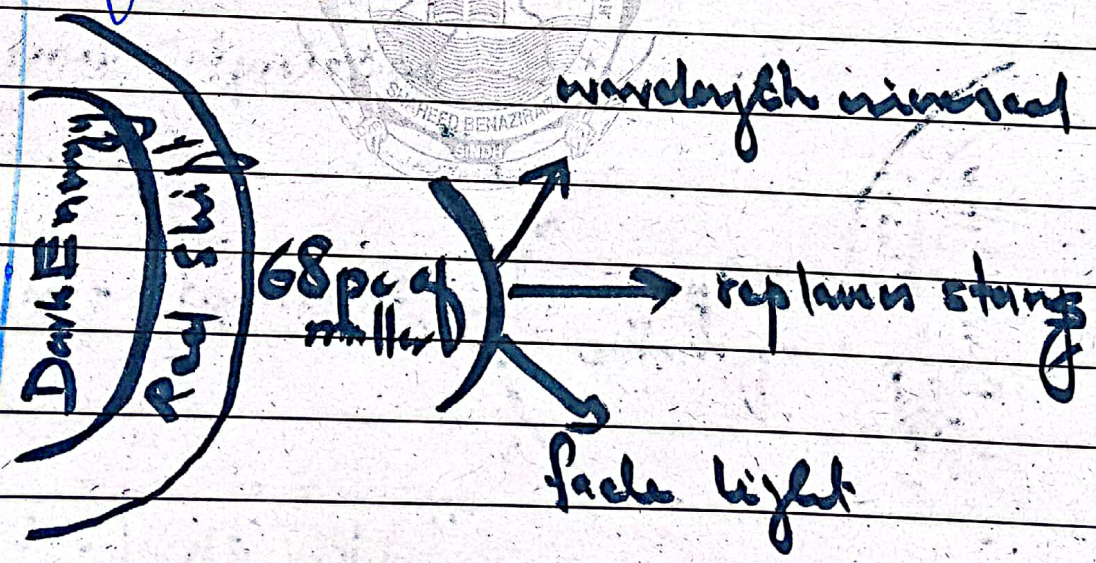
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Dark energy replaces galaxies. In fact, dark energy expands universe and fills all spaces.

Red shift in dark energy

Dark energy results red shift. Stars are moving away from the universe and wavelength increased. Therefore, support pale light.



Dark Matter

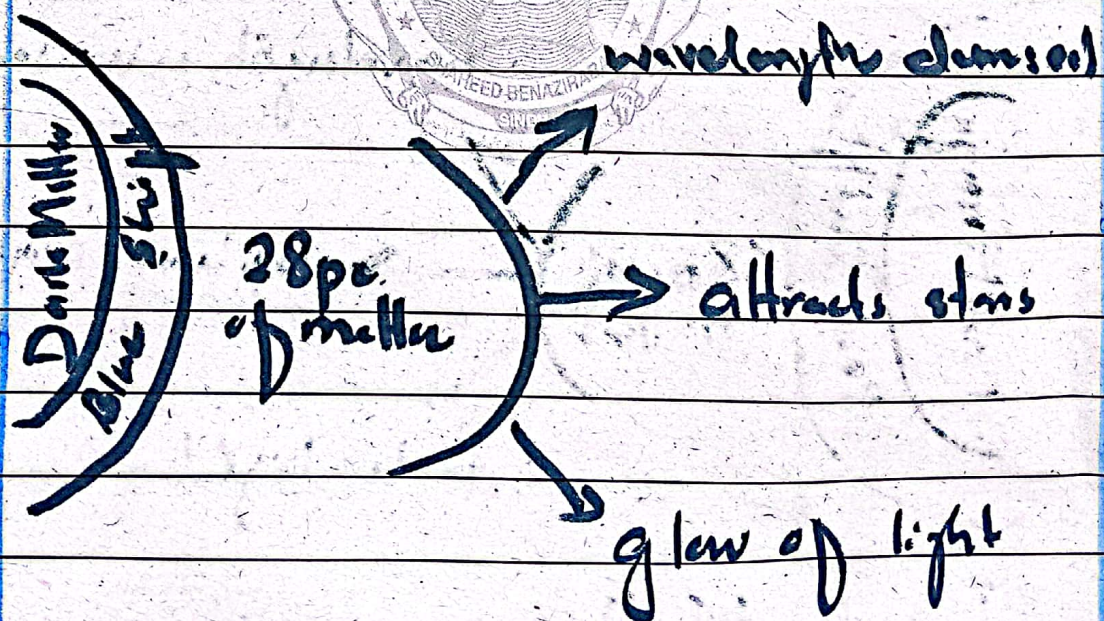
Dark Matter is attraction to galaxies.



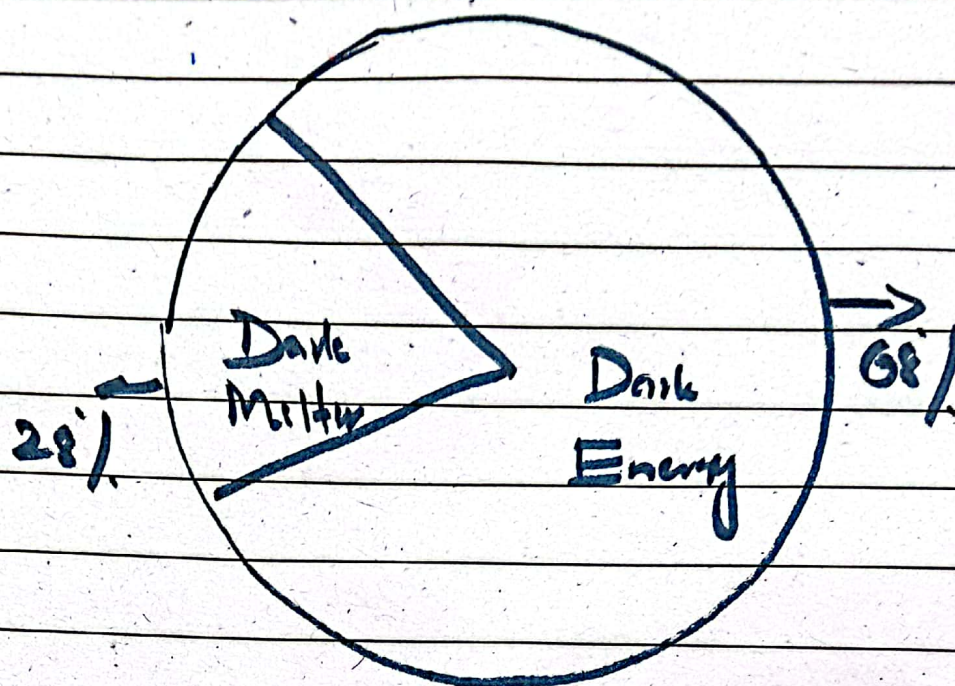
Dark Matter binds galaxies
In fact, dark matter brings the
universe close.

Blue shift in dark matter

Dark matter results blue
shift. Stars are coming close
to the universe and wavelength
is decreased. Therefore, it produces
glow of light.



Further, a diagram shows
below:



• Composition of Universe.

Qc) Describe comparison between a star and a planet.

Star

"Star produces heat and light."

Star is a huge ball. It produces heat and energy.
i.e., Sun

Planet

"Planet is a round

ball like structured,
not having own light.

On the other hand, a planet
is dull, ball-like round body.
In fact, a planet has no light or
own energy.
i.e., earth

Comparison between a star and a planet

Following is comparison:

<u>Comparison</u>	<u>Star</u>	<u>Planet</u>
a) <u>origin</u>	A star has own light producing capacity.	A planet does not produce own light.
b) <u>energy</u>	It produces own energy by fusion reaction.	Fusion reaction does not occur in planet.



c) Revolving objects

Planets are revolving bodies of a star.
i.e., earth

Satellites are revolving objects of a planet.
i.e., moon

d) Temperature

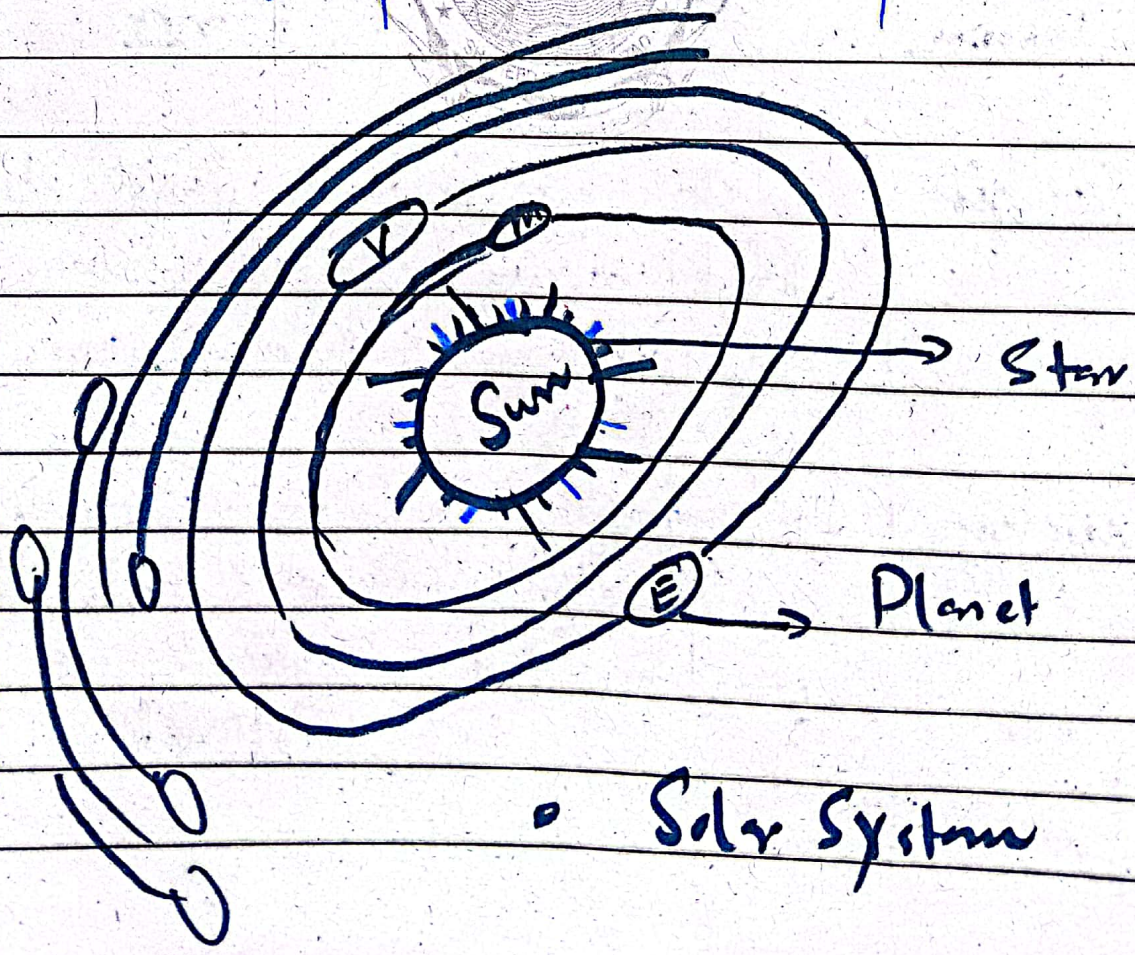
Temperature is the highest.
i.e., 150 million °C

Planets receive temperature from a star.

e) Examples

Sun and
Planet

Earth, Mars,
Jupiter etc.





Q.1) Define Population Planning and its benefits.

Population Planning

Population planning regulates growth of population.

Population planning is a process in which population growth is decreased by certain policies. In fact, population planning helps in good governance.

Benefits of Population Planning

Following are benefits.

a) Better socio-economic policies

Population planning leads to better policies. In fact, population planning reduces impacts on economic and social and political.



olicies burden due to population.

b) To improve mental health of children

Moreover, population planning helps in better mental health of children. In fact, suitable environment impacts mentality.

c) Protection of environment

Population planning protects environment. In fact, it reduces dense population and makes it safer.

