



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,

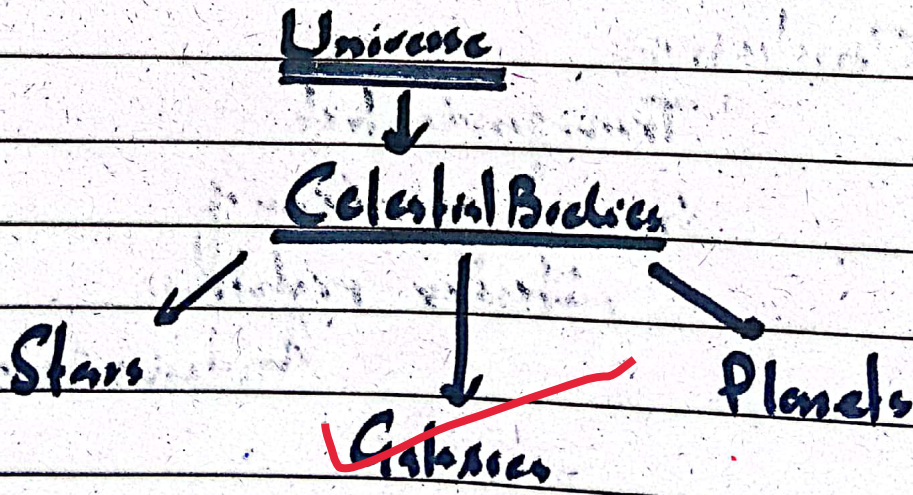
known as universe.

No, introduction and conclusion not required.

Wsd  
numbering  
(دینا)  
main topic

Yes, numbering can be given.

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



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

Amazil  
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کونڈ (a)

Both are okay. Can use any of these

### i) Singularity model

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

### ii) Expansion of singularity

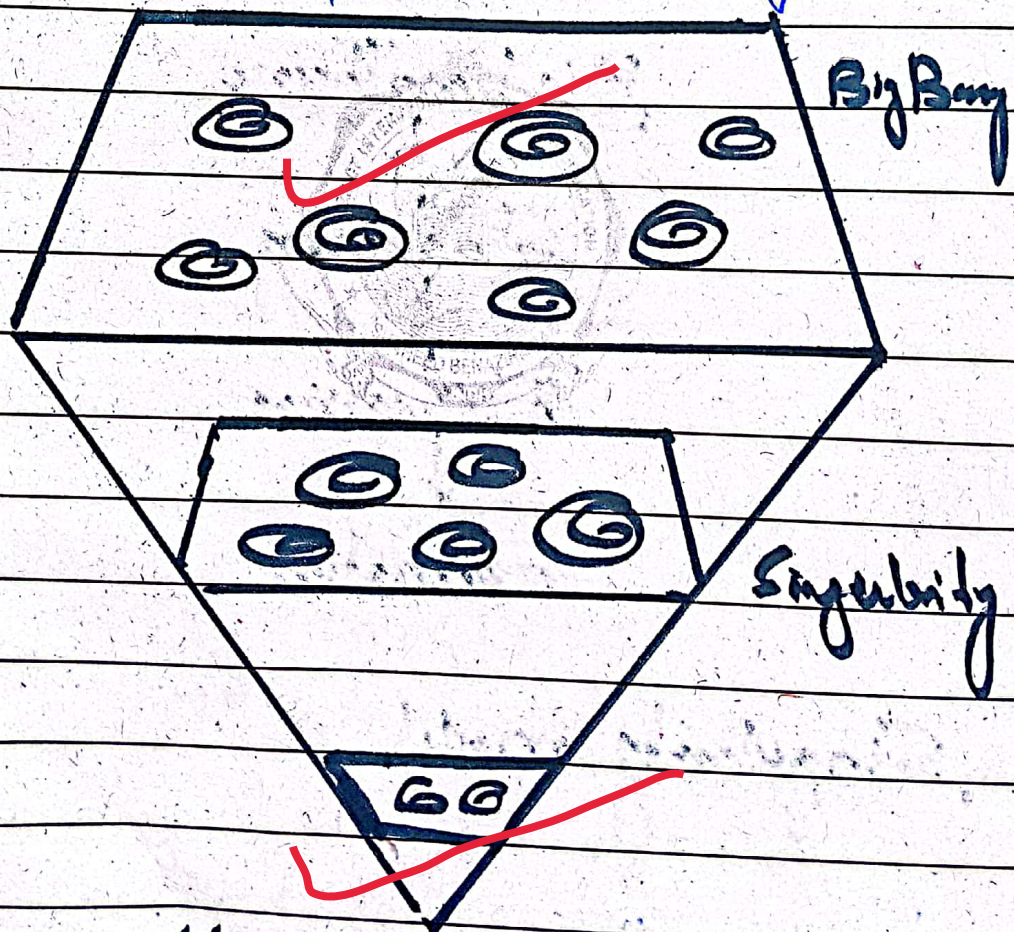
More like single bubble



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 infinite. Hence, it 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.

Both would be okay. If the remaining page is less than half, then can start from the new page.

### Dark Energy

Dark energy is repulsive of galaxies.

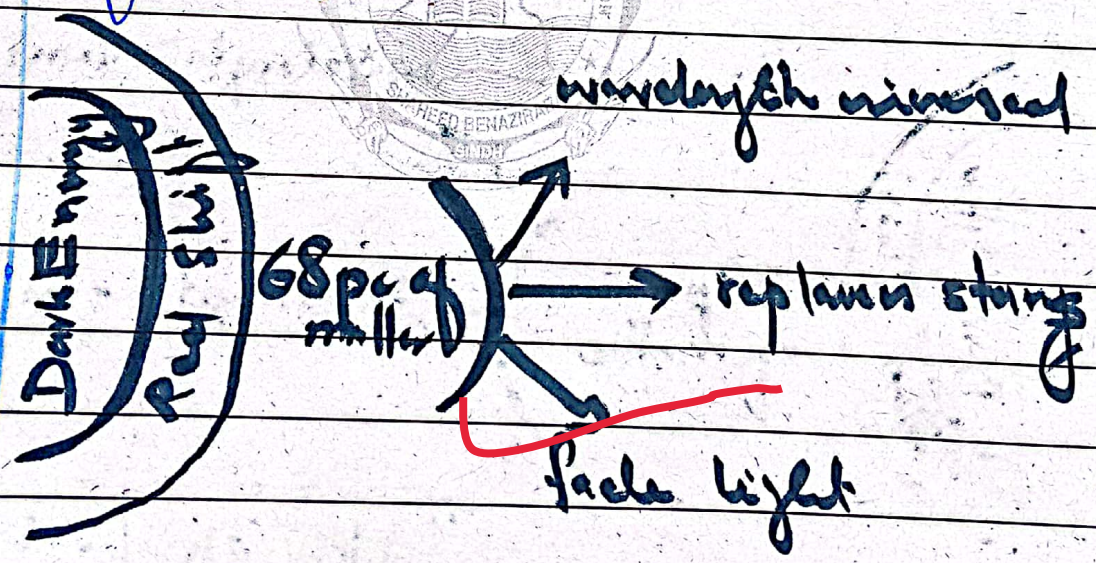
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Dark energy replaces galaxies. In fact, dark energy expands universe and fills all spaces.

### Red shift in dark energy

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



### Dark Matter

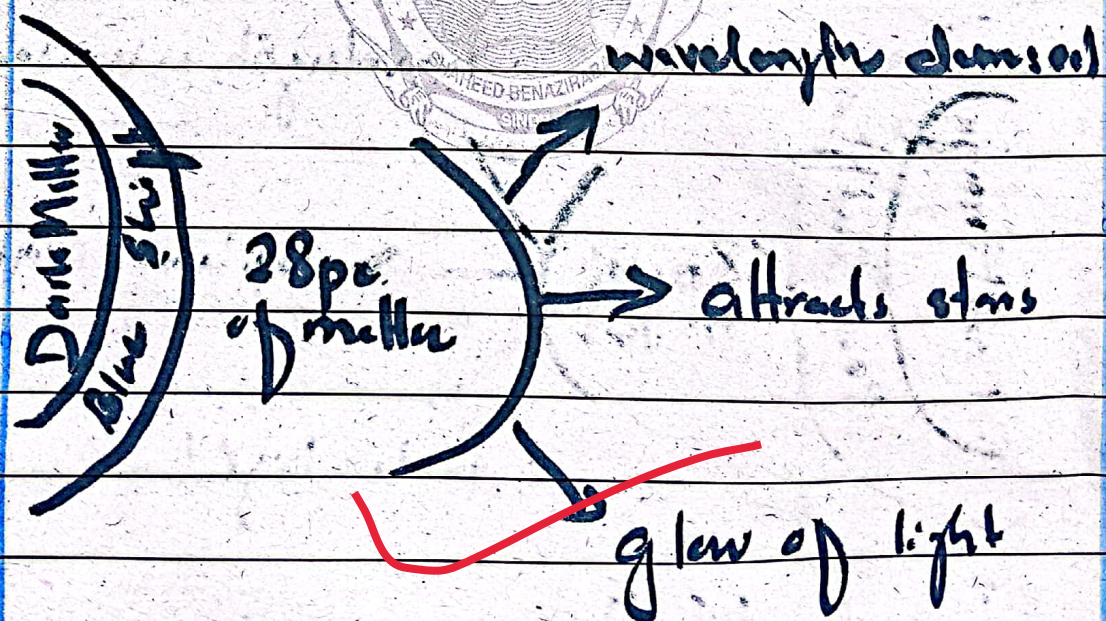
Dark Matter is attraction to galaxies.



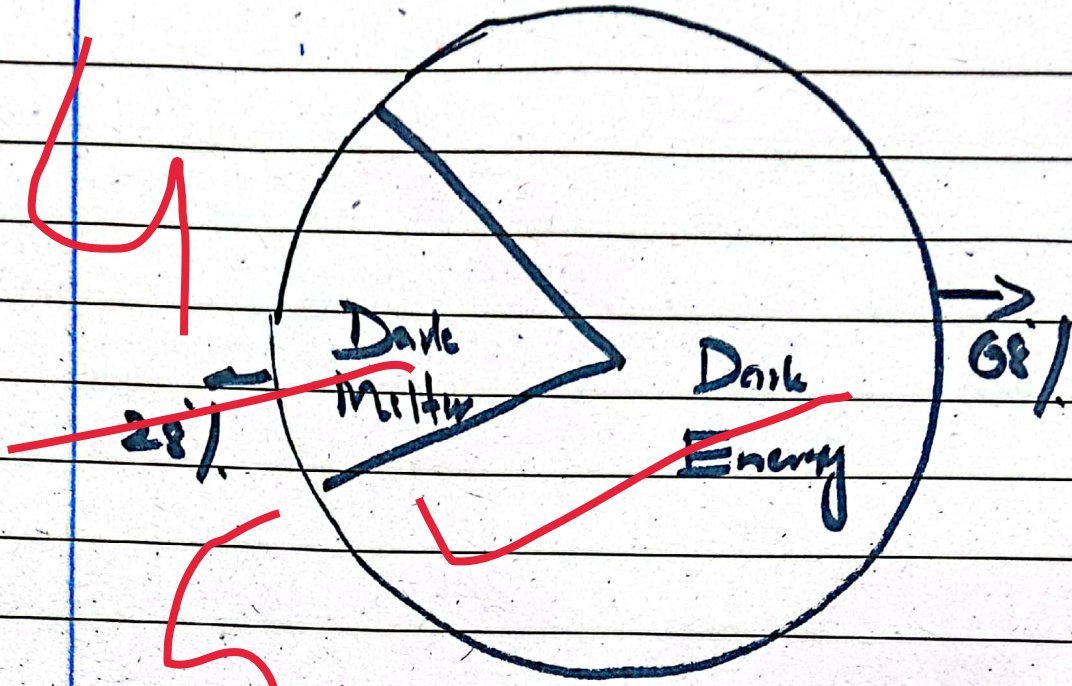
Dark Matter binds galaxies  
In fact, dark matter binds the  
universe close.

## 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.

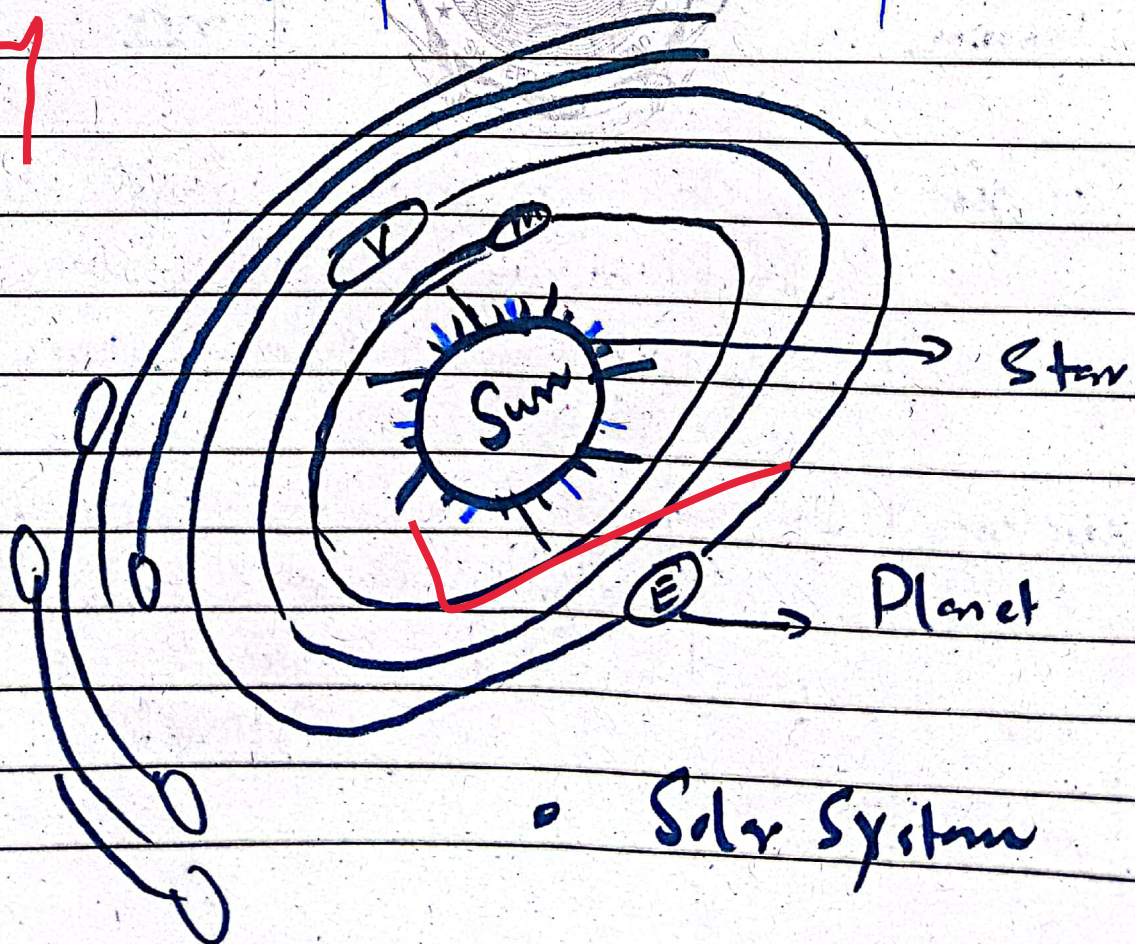
i.e., 150 million °C

Planets receive temperature from a star.

e) Examples

Sun and  
planet

Earth, Mars,  
Jupiter etc.



Solar System



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.

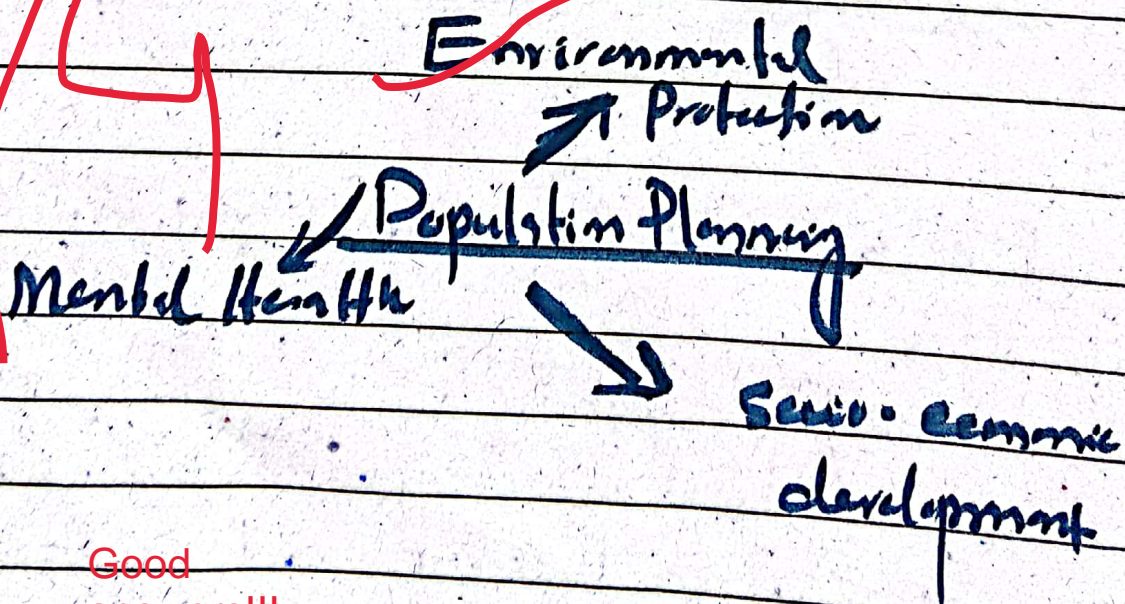
b) To improve mental health of children

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

Add references / examples.

c) Protection of environment

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



Good answers!!!