

Earth Science

1ST SEMESTER - MIDTERM
A.Y. 2023 - 2024

LESSON 1: Earth

Theories on the Origin of the Universe

Steady State Theory

- The universe is always expanding but maintaining a constant average density. A steady-state universe has no beginning or end in time.



Steady State Theory:
Density of matter is constant over time

Oscillating Theory

- The universe expands until the gravitational attraction of matter causes it to collapse back into a singularity gets crushed out of existence and undergo a bounce.



Big Bang Theory

- All matter and energy were compressed at a single point (singularity) at the time of expansion.
- The accepted scientific theory about the origin of the universe is based on multiple lines of evidence.
- It is one of the most popular attempts to describe the early universe.
- It was first proposed though not named, by Belgian astrophysicist and priest **Abb Georges Lemaitre** (1894-1966).
- The name "Big Bang" was coined by British astronomer **Fred Hoyle** in 1949.

Evidence That the Universe is Expanding:

1. Cosmological Red Shift

- It is used to describe how far away a distant galaxy is.
- **SPECTROSCOPY** - is the study of the interaction between matter and electromagnetic radiation as a function of the wavelength or frequency of the radiation.
- **SPECTROSCOPE** - a device that measures the spectrum of light.

2. Cosmic Microwave Background Radiation

- It is the leftover background radiation that fills the universe and can be detected in every direction. - Robert Wilson and Arno Penzias

3. Abundance of Light Elements -- Hydrogen, Helium, and Lithium

- Big Bang nucleosynthesis took place and produced protons, neutrons, atomic nuclei, and then H, He, and Li until 20 minutes after time zero when sufficient cooling did not allow further nucleosynthesis.
- Nucleosynthesis - formation of elements

Hypothesis on the Origin of the solar system

Nebular hypothesis

- The solar system was developed from a primeval nebula; **DUST and GAS**

Encounter hypothesis

- The theory assumes that the Sun was formed before the planet; **SUPERNOVA EXPLOSION**

Protoplanet hypothesis

- Slowly rotating gas and dust cloud dominated by hydrogen and helium starts to contract due to gravity.

EARTH

- Earth is the 3rd planet from the Sun.
- According to radiometric dating and other sources of evidence, Earth formed over 4.5 billion years ago.
- Earth's gravity interacts with other objects in space, especially the Sun and the Moon (Earth's only natural satellite).
- Earth orbits around the Sun in 365.26 days, a period known as an Earth year.

EARTH SYSTEM

1. HYDROSPHERE

- The hydrosphere includes all the water parts on the planet. It includes water on the surface, sub-surface, and water vapor in the atmosphere.
- Water in the oceans and seas, including all the frozen water and ice (cryosphere). Lakes, lagoons, rivers, and ponds, as well as water in the water table beneath the surface of the earth.
- Cover more than 70% of the surface of the earth.



- The oceans and water bodies absorb the sun's energy and warm up.
- Transpiration by trees and Evaporation of surface water occurs.
- The water vapor in the atmosphere condenses (condensation) to form rain clouds and comes down as rain (precipitation).
- The rains fall back on land and into water bodies (run-off) again and they all run back into the ocean for the cycle to continue.

Answers For Apexvs Earth Science Sem 1

Lei Shi



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Table of Contents Answers For Apexvs Earth Science Sem 1

1. Understanding the eBook Answers For Apexvs Earth Science Sem 1
 - The Rise of Digital Reading Answers For Apexvs Earth Science Sem 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Apexvs Earth Science Sem 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Apexvs Earth Science Sem 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Apexvs Earth Science Sem 1
 - Personalized Recommendations
 - Answers For Apexvs Earth Science Sem 1 User Reviews and Ratings
 - Answers For Apexvs Earth Science Sem 1 and Bestseller Lists

5. Accessing Answers For Apexvs Earth Science Sem 1 Free and Paid eBooks
 - Answers For Apexvs Earth Science Sem 1 Public Domain eBooks
 - Answers For Apexvs Earth Science Sem 1 eBook Subscription Services
 - Answers For Apexvs Earth Science Sem 1 Budget-Friendly Options
6. Navigating Answers For Apexvs Earth Science Sem 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Apexvs Earth Science Sem 1 Compatibility with Devices
 - Answers For Apexvs Earth Science Sem 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Apexvs Earth Science Sem 1
 - Highlighting and Note-Taking Answers For Apexvs Earth Science Sem 1
 - Interactive Elements Answers For Apexvs Earth Science Sem 1
8. Staying Engaged with Answers For Apexvs Earth Science Sem 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Apexvs Earth Science Sem 1
9. Balancing eBooks and Physical Books Answers For Apexvs Earth Science Sem 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Apexvs Earth Science Sem 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Apexvs Earth Science Sem 1
 - Setting Reading Goals Answers For Apexvs Earth Science Sem 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Apexvs Earth Science Sem 1
 - Fact-Checking eBook Content of Answers For Apexvs Earth Science Sem 1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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