Name _____

Unveiling the Universe's Birth: The Big Bang Theory Explained

Multiple Choice Questions

1. What is the Big Bang theory?

a) The theory that the universe is constantly shrinking

b) The theory that the universe began with a massive explosion

c) The theory that the universe is eternal and unchanging

d) The theory that the universe is flat

2. What is the Cosmic Microwave Background Radiation (CMBR)?

a) A form of radiation used for cooking food in space

b) A faint glow of radiation filling the universe, a remnant of the early universe

c) A type of radiation emitted by black holes

d) A type of radiation emitted by stars

3. How does the redshift of galaxies support the Big Bang theory?

a) It suggests that galaxies are moving closer to us.

b) It indicates that galaxies are stationary.

c) It shows that galaxies are moving away from us, supporting the idea of an expanding universe.

d) It has no connection to the Big Bang theory.

4. What does Hubble's Law tell us?

a) The distance between galaxies is constant.

b) The universe is not expanding.

c) The velocity of galaxies is unrelated to their distance.

d) The velocity of galaxies is directly proportional to their distance from us.

5. What is the significance of the abundance of light elements in the universe in relation to the Big Bang theory?

a) It disproves the Big Bang theory.

b) It has no connection to the theory.

c) It aligns with the predictions of the Big Bang theory.

d) It suggests that the universe is composed mainly of heavy elements.