

Name \_\_\_\_\_

## Cosmic Echoes: Exploring the Cosmic Microwave Background Radiation

### Multiple Choice Questions

1. What is the cosmic microwave background radiation (CMBR)?
  - a) A type of cosmic music
  - b) A faint glow of microwave radiation throughout the universe
  - c) A form of visible light
  - d) A type of star
  
2. How was the CMBR discovered?
  - a) By using a microwave oven
  - b) By accident, while trying to eliminate background noise from a radio telescope
  - c) By sending astronauts to space
  - d) By studying distant galaxies
  
3. When did the universe cool enough for atoms to form, allowing light to travel freely?
  - a) Right after the Big Bang
  - b) 1 billion years after the Big Bang
  - c) 380,000 years after the Big Bang
  - d) 10 million years after the Big Bang
  
4. What do the tiny hot and cold spots in the CMBR reveal?
  - a) The presence of alien life
  - b) The exact age of the universe
  - c) The initial conditions that led to the formation of galaxies
  - d) The locations of black holes
  
5. How old is the universe, according to measurements based on the CMBR?
  - a) 100 million years
  - b) 4.5 billion years
  - c) 13.8 billion years
  - d) 1 trillion years

