

Name \_\_\_\_\_

## A Universe on the Move

### Multiple Choice Questions

1. What is cosmic inflation?
  - a) The steady expansion of the universe over billions of years
  - b) A theory suggesting rapid and exponential expansion of the universe after the Big Bang
  - c) The formation of galaxies and stars
  - d) The contraction of the universe into a singularity
  
2. What caused cosmic inflation to occur?
  - a) Dark energy and the inflaton field
  - b) Supernovae explosions
  - c) The collision of galaxies
  - d) The gravitational pull of black holes
  
3. How does cosmic inflation explain the flatness of the universe?
  - a) It doesn't address this aspect of the universe.
  - b) By introducing cosmic ripples
  - c) By causing the universe to curve inward
  - d) By stretching out space and making it appear flat
  
4. What is the significance of the BICEP2 experiment in the context of cosmic inflation?
  - a) It discovered cosmic inflation and confirmed its existence.
  - b) It provided conclusive evidence of the inflaton field.
  - c) It detected a pattern in the cosmic microwave background that could be linked to inflation.
  - d) It disproved the Big Bang Theory.
  
5. What role did inflation play in the formation of galaxies and large-scale structures in the universe?
  - a) It had no influence on the formation of galaxies.
  - b) It caused galaxies to collide and merge.
  - c) It provided the initial density fluctuations that led to the formation of galaxies and large-scale structures.
  - d) It accelerated the expansion of existing galaxies.

