

Astronomy Term 3 Periodic 1 2023

Name _____

1. A hypothetical point of infinite temperature and density is called a(n) ...
a. worm hole b. event horizon c. saddle point d. singularity

2. A set of units derived from natural universal constants.
a. Natural Units b. Plank Units c. Einstein Units d. Lorentz Units

3. Cosmic Inflation is a well established and tested theory.
a. True b. False

4. Eternal Inflation is an idea that our universe...
a. is just one of an infinite number of universes
b. will expand forever
c. is on the surface of an expanding sphere of hyperspace

5. When astronomers survey distant regions of the universe they find background radiation that...
a. varies considerably from region to region
b. varies little from region to region
c. does not vary at all from region to region
d. has no apparent cause

6. The observed curvature of the universe is...
a. positive b. zero c. negative d. fractal

7. A mathematical term in the equations of General Relativity that determines the rate of expansion of the universe.
a. Plank Constant b. Hawking Constant c. Cosmological Constant

8. LCDM stands for...
a. Lambda Cold Dark Matter
b. Least Common Denominator Math
c. Large Cold Density Multiverse

9. Baryon Acoustic Oscillations refer to...
a. sound waves inside the sun
b. sound waves in the atmosphere
c. sound waves in the early universe

10. An event in the early universe during which electrons coupled with nuclei to form neutral atoms.
a. combination b. recombination c. coupling epoch d. inflation

11. A hypothesized form of energy causing the expansion of the universe to accelerate.
 - a. dark matter
 - b. dark energy
 - c. negative energy

12. An as yet undiscovered theory of the universe that would help us understand the physics of extreme events like the Big Bang and Black Holes.
 - a. Modified Gravity
 - b. Anti Gravity
 - c. Universal Gravity
 - d. Quantum Gravity