

PHYSICAL SCIENCE – G12
1ST QUARTER EXAMINATION

NAME: _____ GRADE LEVEL: _____ SCORE: _____

Multiple Choices. Read and analyze the following questions. Write the letter of your best answer on the space provided before each number.

- _____ 1. Why is the Big Bang Theory the most accepted theory for how the universe was formed?
A. It is the simplest explanation for the evidence we have.
B. A small group of scientists said it was the best opinion.
C. Religion says it's the best theory.
D. Science has proven it beyond doubt.
- _____ 2. Which of the following has been used as evidence to support the universe is expanding from a historical beginning explosion?
A. Light from distant galaxies and planets showing a shift in their wavelengths.
B. Leftover cosmic energy on the horizon of the universes.
C. Same amount of space matter all throughout the universe regardless of where one looks.
D. All of the above.
- _____ 3. What do the initial moments after the Big Bang have in common with the universe as it exists now?
A. All the stars, galaxies, and planets that exist today were formed just a few moments after the Big Bang.
B. The universe back then could not sustain life, and it cannot sustain life now.
C. The universe was extremely hot then, and it is still extremely hot now.
D. The universe began expanding then, and it is still expanding today.
- _____ 4. What is one major piece of evidence that the Big Bang theory is correct?
A. Astronomers have detected leftover radiation from the Big Bang.
B. Everything in the universe has remained in the same location for billions of years.
C. Astronomers have discovered that the universe is no longer expanding.
D. Astronomers have discovered evidence that the universe will soon begin contracting in a "Big Crunch".
- _____ 5. Which is "not" evidence for the Big Bang theory?
A. red-shifted galaxies
B. hieroglyphics describing the instant of the Big Bang
C. smooth cosmic background radiation
D. amounts of hydrogen and helium
- _____ 6. Which of the following describes stellar nucleosynthesis?
A. The process by which elements are formed within stars.
B. The process by which light elements formed.
C. The process by which both light and heavy elements formed.
D. The process by which elements are formed within just after the Big Bang.
- _____ 7. For the first three minutes after the Big Bang, a substantial amount of neutrons was converted into helium-4 nuclei, before their decay. What element was combined to other nuclei to form heavier ones such as lithium-7 and beryllium-7?
A. Helium
B. Hydrogen
C. Oxygen
D. Sulfur
- _____ 8. In the core of a main sequence star, hydrogen is fused into helium via what process?
A. Carbon nitrogen oxygen cycle
B. Nuclear fusion
C. Proton-proton chain
D. Thermonuclear reactions
- _____ 9. In what process is a more favorable route in converting hydrogen to helium for a massive and hotter star?
A. Carbon nitrogen oxygen cycle
B. Nuclear fusion
C. Proton-proton chain
D. Thermonuclear reactions
- _____ 10. Aristotle, a Greek philosopher, had a different view on atoms. He disregarded the existence of atoms proposed by Leucippus and Democritus. What is his belief about elements?
A. He believed that matter is a collection of atoms.
B. He believed that atoms are homogeneous in nature. They have no internal structures.
C. He believed that everything in the universe is made up of the four elements, air, fire, water, and earth.
D. He believed that matter could be divided into tiny particles until such point where it can no longer be divided anymore.
- _____ 11. Democritus of Abdera (460 - 370 B.C.) and his teacher Leucippus of Miletus (c.500 B.C.) were Greek scholars. They became the first proponents of the atomic theory. What is their belief about atoms?
A. They believed that matter is a not collection of atoms.
B. They believed that atoms are not homogeneous in nature. They have internal structures.
C. They believed that everything in the universe is made up of the four elements, air, fire, water, and earth.
D. They believed that matter could be divided into tiny particles until such point where it can no

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JR Anderson



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