Quiz 8
ASTR 1020 Chapter 20

Please use blue or black ink when taking this quiz.

1) What is the difference between an electron and an anti-electron (positron)?
   a. Its charge
   b. Its mass
   c. Its spin
   d. A and B
   e. A and C

2) What is the grand unified theory (GUT)?
   a. A theory that combines quantum mechanics with electrodynamics
   b. A theory that combines gravity with electrodynamics
   c. A theory that combines all four forces of nature
   d. A theory that combines the electroweak and strong forces

3) Which of the following is not observational evidence in support of the Big Bang theory?
   a. The relative abundance of helium to hydrogen in the universe
   b. The temperature of the cosmic microwave background
   c. The uniformity, with small fluctuations, of the cosmic microwave background
   d. The abundance of lithium in the universe
   e. The density of the universe relative to the critical density

I hereby attest that I have abided by the regulations of the Georgia State University Honor Code while taking this quiz.

Signature:

Name: