

Your name (print) _____

Your FSUID (print) _____

AST 1002 Section 1 (Dobrosavljevic) PLANETS, STARS, GALAXIES

Mini Quiz 3

Instructions: Write your name and your FSUID on the top of this page. Please read the problems CAREFULLY. Each question has one answer. Circle the correct (closest) answer. You may use these exam sheets as scratch paper. **Anyone discovered in any way to have cheated on this examination will fail this course.**

1. Earth would *not* have seasons if

- a. its equatorial plane were perpendicular to its orbital plane.
 - b. its axis of rotation were perpendicular to its equatorial plane.
 - c. the observer's vertical axis (zenith) were perpendicular to Earth's orbital plane.
 - d. its axis of rotation were perpendicular to its orbital plane.
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2. The phase of the Moon at the time of solar eclipse

- a. is full.
 - b. can be any phase: new, quarter, or full.
 - c. is new.
 - d. is third quarter.
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3. Ptolemy's model for the solar system was

- a. Earth-centered, with the Sun, the Moon, and the planets moving in ellipses in the sky.
 - b. Sun-centered, with elliptical planetary orbits.
 - c. Sun-centered, with the planets moving in circles around it.
 - d. Earth-centered, with planetary orbits composed of deferents and epicycles.
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4. The axis around which Earth rotates

- a. always points toward Polaris, the North Star.
 - b. precesses (wobbles) and takes about a century to go around once.
 - c. precesses and takes many thousands of years to go around once.
 - d. always tilts slightly toward the direction of the Sun.
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