

1. Which of the following models accurately describes the view of the solar system first developed by the Greeks?
 - A) planets are stationary
 - B) planets rotate around the sun
 - C) planets rotate around the earth
 - D) planets are stationary, but stars rotate
- **2. What breakthrough did Copernicus make in 1543?**
 - A) He realized that the earth is round.
 - B) He realized that planets and stars rotate.
 - C) He realized that the moon is not a planet.
 - D) He realized that planets rotate around the sun.
- **3. In 1609, Galileo developed the telescope. What did he discover with this tool?**
 - A) He discovered a moon orbiting the planet earth.
 - B) He discovered moons orbiting the planet Jupiter.
 - C) He discovered other stars orbiting our solar system.
 - D) He discovered that the orbit of the planets is elliptical.
- **4. Which of the following discoveries was one of the most important that was made by William Herschel?**
 - A) He discovered the planet Saturn.
 - B) He found a new comet circling earth.
 - C) He determined the shape of the galaxy.
 - D) He found planets in other solar systems.
- **5. Which of the following experiments was used to prove Einstein's Theory of General Relativity?**
 - A) Scientists mapped the orbits of nearby solar systems.
 - B) Scientists viewed light bending around a bowling ball.
 - C) Scientists charted the position of stars throughout a year.
 - D) Scientists took photos of stars before and during a solar eclipse.
- **6. What discovery led Edwin Hubble to conclude that the universe is expanding?**
 - A) The color shift spectrum for a galaxy is almost always shifted to the red.
 - B) The color shift spectrum for a galaxy is almost always shifted to the blue.
 - C) The color shift spectrum for a galaxy fluctuates between both red and blue.
 - D) The color shift spectrum for a galaxy showed fixed orbits for distant galaxies.
- **7. Which of the following interstellar objects was first located by Carl Jansky using radio astronomy?**
 - A) a black hole
 - B) a supernova
 - C) a distant galaxy
 - D) a nearby solar system
- **8. Which of the following did Robert Wilson and co-workers discover in support of the Big Bang Theory?**
 - A) The universe is expanding rapidly.
 - B) The universe has many galaxies close to ours.
 - C) The universe is composed of billions of galaxies.
 - D) The universe has background microwave radiation.
- **9. How do astronomers find planets in other solar systems?**
 - A) They can directly observe them with a telescope.
 - B) They monitor the pattern of movement and light from a star.
 - C) They chart the curvature of space as light bends around a star.
 - D) They predict the acceleration of nearby stars in relation to the planet.
- **10. What force do scientists such as Saul Perlmutter believe is counteracting gravity and allowing the universe to accelerate the rate of its expansion?**
 - A) black holes
 - B) gray matter
 - C) dark energy
 - **D) curved space**