

A2141 - In-class pop quiz#2

1. The difference between velocity and speed is that

- Group of answer choices velocity includes speed and the direction of motion
- velocity is the rate at which speed changes
- speed includes velocity and the direction of motion
- A body with constant velocity can have speed changes
- There is no difference between speed and velocity

2. With one of the first telescopes, Galileo discovered

- Group of answer choices All of the other answers are correct.
- that the Milky Way is made up of individual stars.
- the four brightest satellites of Jupiter.
- the rotation of the Sun by watching Sunspots.
- the mountains of the Moon.

3. The commonly accepted interpretation of the red shifts found in the spectra of the galaxies is that they arise from _____, increasing with distance.

- Group of answer choices gravitational fields
- absolute magnitude
- Doppler shifts, i.e., speeds of recession
- rotational speeds

PQ2 –Contd.

4. Which of the following correctly matches a planet's position and its orbital speed?

- Group of answer choices Any position, same (constant) orbital speed
- Perihelion, slowest orbital speed
- Aphelion, slowest orbital speed
- Aphelion, fastest orbital speed

5. The eccentricity of an ellipse is defined as the number obtained by dividing that distance from the center of the ellipse to either focus by the

- Group of answer choices length of the semi-major axis.
- length of the major axis.
- length of the semi-minor axis.
- distance between the foci.