**Astrophysics Quiz No. 14: Let’s Examine the Miscellaneous Solar**

**System Objects**

1. What are the 1st and 2nd largest Dwarf Planets in the Solar System?

a. Eris and Pluto

b. Ceres and Pluto

c. Ceres and Vesta

2. Where are the largest gatherings of asteroids in the Solar System?

a. Main Belt of asteroids

b. Trojan asteroids of Jupiter

c. Kuiper Belt objects

3. What is currently the believed source of long elliptical and inclined orbits of comets?

a. The Kuiper Belts objects

b. Oort Cloud of comets

c. Interstellar space

4. Why are the Near-Earth-Objects (NEOs) asteroids considered dangerous to Earth?

a. Dangerously close orbiting objects besides the Moon

b. Rare crossings of the Earth’s orbit

c. Perturbations causing unpredictable trajectories toward Earth.

d. Unknown NEOs

e. All the above factors

5. How many planets have rings of small debris?

a. One

b. Two

c. Four

6. And now comes the big question. Where did all these different and strange celestial objects come from? Astrophysics has no proven answers, only weak hypotheses. These ideas are –

a. Leftover parts from the original accretion of the planets.

b. Subsequent collisions caused by planet migrations that created the mysterious Late Heavy Bombardment (LHB) period.

c. Subsequent capture from interstellar space

d. Periodic but infrequent collisions between planets/moons from another star system captured by the Sun.

e. A nearby star that disturbs the Oort Cloud of frozen bodies and displaces comets into both the inner and outer solar system.

Which of the above ideas are not yet part of consensus science?

Answers: **1. a; 2. a; 3. b; 4. e; 5. c; 6. c and d**