Earth's Structure Quiz

1. **What are earth’s three main layers?**
   a. Core, mantle, and surface
   b. Core, mantle, and crust
   c. Inner core, outer core, and mantle
   d. Upper mantle, lower mantle, and crust

2. **What do earthquake waves have in common with other waves?**
   a. They travel at the same speed as light waves
   b. They carry the same amount of energy as sound waves
   c. They bend when they travel through different materials
   d. They have the same wavelength as radio waves

3. **Where is the earth's crust the thickest?**
   a. Under the oceans
   b. Under the mountains
   c. At the poles
   d. At the equator

4. **Which word best characterizes the lower mantle?**
   a. Scalding
   b. Cool
   c. Molten
   d. Lukewarm

5. **How deep would you have to drill to reach the center of the earth?**
   a. About 60,000 kilometers
   b. About 600,000 kilometers
   c. About 600 kilometers
   d. About 6,000 kilometers

6. **What effect does the spinning of the earth’s core have?**
   a. It creates gravity
   b. It creates matter
   c. It creates mass
   d. It creates the earth's magnetic field

7. **Which of the following statements about the Earth's inner core is true?**
   a. It's mostly made of iron
   b. It's mostly made of nickel
   c. It's mostly made of cadmium
   d. It's mostly made of magnesium

8. **What is the only entirely liquid layer of the earth?**
   a. The upper mantle
   b. The outer core
   c. The inner core
   d. The lower mantle

9. **Which of the following statements is an opinion about the mantle?**
   a. It makes up the bulk of the earth's mass
   b. Heat churns through it
   c. It contains iron, silicon, magnesium, and oxygen
   d. It is the most important layer of the earth

10. **If the earth's mantle were completely solid, ______ plates could not move around.**
    a. Tectonic
    b. Technical
    c. Titanic
    d. Agnostic