GeoScience Videos Quiz for Earthquake Hazards I: Ground Failure

1. Which part of the San Andreas Fault ruptured during the 1906 earthquake that destroyed much of San Francisco?
   - a) The northern segment
   - b) The southern segment
   - c) The central segment
   - d) All along its length

2. Severe shaking (forces of $\frac{1}{2}$ g or greater) was experienced by structures ___ miles from the source of the 1994 Northridge earthquake?
   - a) less than 2
   - b) up to ~15
   - c) more than 50

3. Santa Rosa experienced greater damage than surrounding cities after the 1906 San Francisco earthquake due to
   - a) it’s location close to the fault
   - b) fires that followed the earthquake
   - c) the weak underlying materials
   - d) a tsunami.

4. During faster ground motions, which buildings are expected to suffer the most damage?
   - a) Multi-story tower blocks
   - b) two-story homes

5. How far will the ground be offset during surface rupture associated with most medium to large earthquake?
   - a) A few meters
   - b) Several tens of meters
   - c) More than 100 meters

6. Under what conditions is liquefaction most likely to occur?
   - a) When material on steep slopes undergoes shaking
   - b) When faults move suddenly after many years of no activity
   - c) When water saturated sediments experience an earthquake.

Answer Key: 1. a) 2. b) 3. c) 4. b) 5. a) 6. c)