

Name:

No:

Review Questions - True or False

1. Gas/Oil extraction greatly increases pore pressure.
2. Negative values of ΔS (total strength change) signify the weakening of the fault.
3. Increase in ΔP (Pore Pressure) strengthens the fault.
4. Shear stress is a stress perpendicular to a plane.
5. Quarry blasts may let off enough energy to be like an M=7 earthquake.
6. Radiation patterns for bombs and earthquakes are similar.
7. Nuclear tests generally have stronger surface waves.
8. Explosions are shear sources and earthquakes are compressional sources.

Briefly answer the following

9. What could you suggest for real-time control induced-ground seismicity in an oil and gas reservoir if you become a consultant for an oil company?
10. What is Byerlee's Law?