

Crustal Deformation & Structural Geology

1. How do these types of deformation differ?
 - a. What is compression?
 - b. What is extension?
 - c. What is shear stress?
2. What is confining pressure?
3. What is differential stress?
4. What is the difference between stress and strain?
5. How do you describe the attitude of beds? What are strike and dip?
6. How are strike and dip measured?
7. Describe the major features of folds (hinge, axis, axial plane, limbs, location of youngest strata when eroded) and identify the various types of folds.
 - a. anticline,
 - b. syncline,
 - c. monocline,
 - d. dome, and
 - e. basin
 - f. isoclinal fold
 - g. overturned fold
 - h. recumbent fold
8. Describe and give examples of the various types of faults.
 - a. normal fault
 - b. reverse fault
 - c. thrust fault,

d. strike-slip fault

e. hanging wall,

f. foot wall.

9. What is a horst?

10. What is a graben?

11. Explain how faults are formed

12. How do joints form?

a. How do they differ from faults?

13. What are limbs and hinge planes on folds?

14. What is plunge in a fold?

15. What is the difference between ductile and brittle rock deformation?