

**Musrata University**  
**Petroleum Engineering Department**  
**Final Exam - Structure Geology**

03-02-2014

Time: Three Hours

Instructor: Atya M. Awinat

Student: .....

Student No. ....

**Question 1** Fill the Gaps:

1. Structural geology is .....
2. The two types of the deformation resulting to the stress are  
1..... 2 .....
3. Hydrostatic Stress is .....
4. Uniaxial compression is .....
5. Triaxial stress is .....
6. Biaxial stress is .....
7. Fractures are .....
8. Faults are classified based on their orientation relative to  
.....
9. The main structures associated with the extensional fault are  
1..... 2.....
10. The main structure associated with the compressional fault is  
..... While the main structures associated  
with the shear fault is .....

**Question 2.** Explain are the main stress compounds on 2-D plane, with sketch?

**Question 3.** Explain the main types of stresses and strain?

**Question 4.** What are the main types of faults? Give a sketch for each one? Draw the stress ellipsoid for each one?

**Question 5.** Give a brief definition for each term:

1. The axial plain for the folds.
2. The horizontal and the plunging folds.
3. The syncline and the anticline folds