**ES486 Petroleum Geology NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Key Word Search / Summary Review on concepts in Sedimentology, Stratigraphy and Sedimentary Basins**

Read the text review chapter on Sedimentary Rocks and Sedimentary Basins located at the following URL:

<https://people.wou.edu/~taylors/es486_petro/text/Sed_Rocks_Review.pdf>

Using internet (Google, Wikipedia), text reading, and other class resources, provide a brief definition or description of the following terms, with a sketch, equation or cut-n-paste photo where required. Complete you answers using MS Word, make them look professional and type-written, with cut-n-paste photos + images as required.

For a model document showing an example style of a top-notch key word search submission, go to the following URL:

<https://people.wou.edu/~taylors/es486_petro/example_review_question_summary_format.pdf>

**A. Sedimentary Rocks**

1. Weathering *(provide definition, explanation, examples)*
2. Clastic / Detrital *(provide definition, explanation, examples)*
3. Clay *(provide definition)*
4. Sorting *(provide definition)*
5. Biochemical Sedimentary *(provide definition, explanation, examples)*
6. Chemical Sedimentary Rocks *(provide definition, explanation, examples)*
7. Conglomerate vs. Breccia *(provide definition)*
8. Shale *(provide definition)*
9. Arkose *(provide definition)*
10. Gray Wacke *(provide definition)*
11. Limestone *(provide definition)*
12. Dolostone *(provide definition)*
13. Coal *(provide definition)*
14. Chert *(provide definition)*
15. Sedimentary Structures *(provide definition, explanation, examples)*
16. Lithofacies-Biofacies *(provide definition, explanation, examples)*
17. Bed vs. Lamina *(provide definition and sketch)*
18. Paleocurrent Indicators *(provide definition, explanation, examples)*
19. Fluvial *(provide definition)*
20. Lacustrine *(provide definition)*
21. Carbonate Ramp *(provide definition and sketch)*
22. Carbonate Compensation Depth *(provide definition)*

**B. Stratigraphy**

1. Stratigraphy *(provide definition, explanation, examples)*
2. Law of Original Horizontality *(provide definition and sketch)*
3. Law of Uniformitarianism *(provide definition)*
4. Law of Superposition*(provide definition, explanation, examples)*
5. Law of Cross-Cutting Relations*(provide definition, explanation, examples)*
6. Law of Lateral Continuity*(provide definition, explanation, examples)*
7. Law of Floral and Faunal Succession *(provide definition)*
8. Walthers Law*(provide definition, explanation, examples)*
9. Paleozoic-Mesozoic-Cenozoic *(provide definition and absolute ages)*
10. Lithostratigraphy-Chronostratigraphy-Biostratigraphy

 *(provide definition, explanation, examples)*

1. Index Fossils *(provide definition, explanation and examples)*
2. Unconformity *(provide definition, explanation, examples)*
3. Interfingering Strata *(provide definition and sketch)*
4. Diastem *(provide definition)*
5. Lacuna *(provide definition)*
6. Paraconformity *(provide definition and sketch)*
7. Transgression-Regression *(provide definition and sketch)*
8. Onlap-Offlap *(provide definition and sketch)*
9. Eustacy *(provide definition and explanation)*

**C. Sedimentary Basins**

1. Rift Basin *(provide definition and sketch)*
2. Strike-Slip Basin *(provide definition and sketch)*
3. Normal Fault *(provide definition and sketch)*
4. Reverse Fault *(provide definition and sketch)*
5. Isostatic Subsidence *(provide definition and sketch)*
6. Forearc Basin *(provide definition and sketch)*
7. Foreland Basin *(provide definition and sketch)*
8. Backarc Basin *(provide definition and sketch)*
9. Intracratonic Sag *(provide definition and sketch)*
10. Aulacogen *(provide definition and sketch)*