

Exam #2 Review Sheet

Lecture 5 and 6: (Sedimentary Rocks)

Chemical vs Physical Weathering

Transformation of Granite into Sediment

Dissolution, Hydrolysis, Oxidation

Clastic vs Chemical Sediment

Fossil Fuels

Lithification

Compaction, Cementation

Classification and Textures

Grain Size, Sorting, Rounding, Particle size, Composition

Sedimentary Structures

Bedding, mudcracks, cross-bedding, dunes, ripples, graded beds, turbidity currents

Lecture 7: (Metamorphic Rocks)

Metamorphism

Metamorphic Grade

Controlling Factors of metamorphism

Temperature, pressure (normal stress, shear stress, strain), fluid interaction

Textures

Foliation

Preferred orientation

Alternating bands of different minerals

Flattening and stretching of minerals

Index Minerals

Classification of Metamorphic rocks

Types of metamorphism

Contact, Regional, Hydrothermal

Lecture 8: (Geologic Time Scale)

Relative vs Absolute Age

6 Principles

Superposition

Original Horizontality

Cross-Cutting Relationship

Inclusions

Lateral Continuity

Faunal Succession

Geologic Time Scale

Eons, Eras, Periods, Epochs, Age

Unconformities

Angular, Disconformity, Nonconformity

Radioactivity

Isotopes, radioactive decay, half-life, parent and daughter ratio

