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SEDIMENTARY ROCKS IN THE FIELD A

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Rocks, Processes, and Environments .

Sediments. are loose grains and chemical

residues of earth materials, which include

things such as, Sediment and sedimentary

rocks • Sediment • From sediments to

sedimentary rocks (transportation,

deposition, preservation and lithification),

grains).. Sandstones are one of the most

common types of sedimentary rocks.

Mudrocks Mudrocks are made of fine grained

clasts (silt and clay sized) . A siltstone is one

variety that consists of silt-sized fragments. A

shale is composed of clay sized particles and

is a rock that tends to break into thin flat

fragments (See figure 7.6e in your text)., 1

LECTURE: CLASSIFICATION OF

SEDIMENTARY ROCKS 1. Clastic

(siliciclastic) - Sandstones - Mudstones

(shales) - Conglomerates

2.Chemical/Biochemical - Carbonates, (a).

Describe the mode of formation of the

sedimentary rocks (b). Give an account of

sediment erosion and transport (c). Discuss

the concept of rounding in sedimentary rocks

(d). Outline the classification of sedimentary

rocks. (e). Illustrate the common structures

and textures in sedimentary rocks. (f)., After

compaction and cementation the

sedimentary sequence has changed into a

sedimentary rock. Sedimentary rocks like

sandstone, shale and limestone differ from

other rocks in that they: 1. Are formed from

layers of sediment built up over many years.

2. Are grains of sediment cemented together

by various minerals. 3., Sedimentary rocks

makes up to 66% of the earth's crust,

with 34 % being the igneous and the

metamorphics. Igneous rocks however,

forms the majority of 34 % ..., Sedimentary

Rocks Weathering, Erosion, Deposition, and

Lithification Layered Rock on Mars may

indicate sedimentary rock Red Beds indicate

oxygenation of early Earth Importance of

sedimentary rocks. • Source of many

construction materials. • Sediments can

store information on past climate. • Type

of rock can indicate environment of

deposition., SEDIMENTARY ROCKS

Sedimentary rocks are classified based on

their TEXTURE and COMPOSITION

TEXTURE. Is the geometrical arrangement of the constituents of a rock (SIZE, SHAPE, Chapter 3 SEDIMENTARY STRUCTURES 1. INTRODUCTION 1.1 You might have heard us define structure in rocks as rock geometry on a scale much larger than grains. This is a singularly unilluminating definition, be-

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