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TOPICS COVERED BY GEOLOGY AND CIVIL ENGINEERING ARE OVER-THE-TOP ROCK PROCESSES, METAMORPHIC ROCKS GEOLOGICAL STRUCTURE AND A SECTIONAL MAP OF INTERPRETATION OF TECTONIC BOUNDARY HAZARD ROCKS OF THE STATES UNITED WEATHERING AND SOILS FLOOD PLAINS AND ALLUVIUM GLACIAL DEPOSITS CLIMATIC VARIANTS COASTAL PROCESSES GROUND. ICAL SURVEY ASSESSMENT OF DIFFICULT GROUND ROCK STRENGTH ROCK MASS STRENGTH SOIL STRENGTH GROUND SUBSIDENCE SUBSIDENCE ON CLAY SUBSIDENCE ON LIMESTONE SUBSIDENCE OVER OLD MINES MINING SUBSIDENCE SLOPE FAILURE AND LANDSLIDES LANDSLIDE WATER IN SOIL FAILURE AND LANDSLIDES LANDSLIDE PERMANENT STATE OF CHANGE. Geological processes constantly change the Earth's surface, destroy old rocks, create new rocks and add complexity to ground conditions. The cycle of geology covers all the major processes that must be cyclical, otherwise they will inevitably stop. Earth : Mostly erosion and destruction of rock Sea : Mainly deposition, forming new precipitations Sed by the ground : New rocks created and deformed earth movements are needed to cycle, without their land would be eroded down to just below sea level. Plate tectonics provides a mechanism for almost all earth movements. The hot interior of the Earth is the main source of energy that controls all geological processes. Geological time is an important concept. Earth is 400 million years old, and it has continuously evolved to its present form. SURVEYING IES MASTER GATE STUDY MATERIAL : CLICK HERE Most breeds encountered by engineers are 10-500 M years old. They were moved and deformed over time, and some were then exposed to the surface. The erosive removal of rocks that once lay over them. Underground structures and the earth's surface were constantly developing during geological time. Most of the surface forms of land seen today have been carved by erosion over the past few million years, while old forms of earth have been destroyed. The time difference is important, the origin of rocks on the surface may have nothing to do with the current environment. A classic example is Mount Everest, the peak of which is the limestone formed in the sea 300 million years ago. Geological time is difficult to understand, but it must be accepted because there are many contrasts in terrestrial conditions. GEOTECHNICAL ENGINEERING ACE GATE MATERIAL : CLICK HERE ROCKS AND MINERALS Rocks are a mixture of minerals with variable properties. Minerals are connections of fixed-properties. The properties of the rock generally depend on the next strength and stability of the composite minerals in soil or weakness of the mineral structure, and larger rock structures All breeds fall into one of three families, each of which has a widely defined origin and properties. IGNEOUS ROCKS Material Origins : Crystallized from Molten Magma Environment : Underground, and How Lava Flows Rock Texture : Mosaic Interconnected Crystals Rock Structure : Massive (Unconcentrated) Rock Strength : Single High Strength Major Types : Granite, Igneous Rocks basalt (Source: Google Images) SEDIMENTARY ROCKS Material Origins : Erosion debris on the Earth's surface Environment : Positional pools, mostly Sea Rock Texture : Mostly granular and cemented Structures Rock : Layer, bedding, bedding planes Rock Power : Variable low, Planar weaknesses Major types : Sandstone, limestone, clay sedimentary rocks (Source: Google Images) METAMORPHIC ROCKS Material Origins : Altered by heat and/or pressure Environment : Mostly deep inside the mountain ranges Rock Texture : Mosaic of interconnected crystals Form : Crystal orientation due to pressure Rock Force : Variable, high It is useful to generalize, as in the properties shown above, in order to build an understanding of geology. But it must be admitted that breeds are not engineering materials and their properties vary from site to place. For example, most sedimentary rocks are quite weak, and limestone is a sedimentary rock, but some limestones are very strong. ENVIRONMENTAL ENGINEERING ACE GATE NOTES : CLICK HERE ROCK STRENGTH : The strength of pristine rock depends on the strength of the mineral component and how they relate to each other by locking or cementing. The force of rock mass is applied to the mass of fragmented rock inside the ground and is largely due to the weakness of cracks. Hardness is not directly related to strength, usually only related to the ease of drilling. Rock rejection is usually in the haircut, unlimited compression in laboratory tests produces oblique scissors failure. Undetectable compression strength (UCS) is a single-axis force in an unlimited state. UCS dry breed is the standard for determining the strength of a breed. UCS generally refers to porosity and therefore to dry density. Most delightful breeds have porosity of less than 1% and UCS is larger than 200MPa. Sedimentary rocks with a density of less than 2-3 tons/cube m usually have UCS less than 70 MPA. The elasticity module (E) is an increment of voltage increment, so it is directly related to force. It is mainly known as the Young module. Ductile failure begins where stress limitation is greater than UCS. The ratio of modulus E/UCS, and is about 300 for most breeds and less than 500 for some and still limestone. 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