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Course Geology

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Q: Why is geology essential when it comes to the domain of civil engineering? Analyze the involvement of geology in all aspects of a construction project?

Ans The need or the essential of geology in civil engineering come from "1928" when fail St-Francis Dam in California.

"ge" means earth and logia mean study.

In geology we will study the properties of earth, composition and different components

- ↳ The study of solid earth
- ↳ The study of rock and also its composition
- ↳ The process by which they change

Geology aspect in Construction :->

To predict the behaviour of soil.

The geologist observe the earth surface interaction, earth processes impact

↳ During the planning.

↳ Observe the Environmental impact analysis

Geologist work in construction project to prevent.

- * geologic hazards
- * Geotechnical material properties
- * Land slide and slope stability
- * Erosion, flooding, dewatering & Seismic investigation

Question # 2

Part A Give some possible reason of part - volcanic changes ?

Answer volcanoes are formed by eruption of lava and ash when magma rise through cracks or weak spot in earth crust. A build up pressure in the earth is released by the following things

- ↳ Such as plate which forces molten rocks to exploded into the air causing a volcanic eruption - changes.
- ↳ One volcano erupt every 12 hours average spewing ash and lava into the air.
- ↳ Fundamentally come down the temp pressure change with in the volcano.
- ↳ The force between two plates

Part B

Question \Rightarrow 2 Explain how the amount of SiO_2 ultimately affects the composition of igneous rocks?

Ans

The variation in amount of these oxides was investigated. It was found that some depend on the nature of mineral

- \hookrightarrow weathering trends emanating from compositional field of common igneous rocks to converge on composition relatively rich in SiO_2 , Al_2O_3 and Fe_2O_3
- \hookrightarrow convergence mean the composition of parent's rocks on the composition of the resulting soil.
- \hookrightarrow The temperature are determined $1800^\circ C$ for SiO_2
- \hookrightarrow The grains of sedimentary rocks
- \hookrightarrow The reflection of tectonic plates

Q \Rightarrow 3

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Ans
Occurrence of weather \rightarrow

weather

on earth is caused by heat from the sun movement of the air. All weather happens in the lower layer of earth atmosphere which is layer of gases surrounding earth. Warm air rises and cold air then rushes in underneath to replace it.

Analysis of different forms of weather

Different forms of weathering occur by the following reason

↳ weathering processes are likely to be distinctive because of distinctive diurnal and seasonal temperatures and relative humidity regimes

↳ Contrary a belief moisture in weathering is widely available

↳ Physical processes are probably significantly more important than else. but the ^{role} of climate can not be ignored.

↳ Some of debris and weathering features will be inherited from ~~original~~ climatic change

↳ Despite a common emphasis upon ~~the~~ weathering land form

↳ The important role of weathering is to provide debris from fluvial and aeolian system

↳ The main of temperature