

## 2021 RVCC GEOL-157 Exam 2 Topics

25 questions – 13 True/False and 12 Multiple Choice

What depths (km) do most earthquake foci occur at?

Is sandstone or mud rock more abundant?

What is the term used for the point where an earthquake's energy is released?

What kind of gravitational and magnetic anomalies correlate with subsurface iron-bearing (relatively heavy) materials?

What rock (protoliths) can become metamorphic rocks?

Does the first motion of an earthquake seismic wave recorded on many seismographs provide a unique solution for the orientation of the associated fault plane?

What does the S-wave shadow zone tell us about the outer core?

95% of earthquakes occur at tectonic plate boundaries where rocks converge, diverge, or slip past each other.

A one-integer increase in earthquake magnitude represents about a ??-fold increase in the amount of seismic energy released.

What is and why does liquefaction occur?

Does the term 'sediment' include minerals extracted from water by organisms to build their shells?

Why is 'crystalline' a term used to describe igneous and metamorphic rocks?

Do compaction and cementation often occur together?

With increasing metamorphism, sandstone forms quartzite whereas limestone forms \_\_\_\_\_.

Where happens to water in sedimentary rock when it's metamorphosed?

Know the fundamental aspects of point, line, and polygon vector geospatial data versus raster data.

Most tsunamis are caused by shallow submarine earthquakes along what tectonic setting?

Know that with respect to metamorphic grade that mudstone < slate < schist < gneiss < migmatite.

What is liquefaction?

How do surface seismic waves differ from body waves?

What are the different types of chemical weathering?

What happens to a material that becomes oxidized?

What processes produce detrital sediment?

What are the principle types of metamorphism?

What process causes ripple marks to form in sediment?

What are the principle agents of metamorphism?

What physically happens to sedimentary particles during transport?

The seismic energy released by an earthquake stems from what?

An earthquake's magnitude is a measure of what?

Hornfels is a metamorphic rock resulting from the interaction of an igneous body with what type of rock?

What are the major depositional settings?

A marine transgression occurs when sea level \_\_\_\_\_ with respect to the land

Know the primary sedimentary structures.

What do the four dimensions of space and time refer to in a virtual globe?

What are varieties of microcrystalline sedimentary quartz?

Know the units of measurement in imperial and metric mapping systems.

Know the standard scale, how many feet on the ground one inch represents on a US Geological Survey Topographic map, and the contour interval for the hypsography.

Know how many degrees in a standard azimuthal measurement system.

Know the difference between true and magnetic North