# Oceanography MRSC 100 Exam 2 Study Guide with Complete Solutions

How are volcanoes formed? - ANS-ubduction happens, then since crust is pulled down into the earth, hotter(less dense) energy comes up because of convection and forms a volcano

What is science? - ANS-he intellectual and practical activity encompassing the systematic study of the structure and behavior of the physical and natural world through observation and experiment.

What is the scientific method? - ANS-Observation -> hypothesis -> testing -> theory

Hypothesis - ANS-idea proposed to explain one or more facts (must be tested)

Theory - ANS-Structure of ideas that explains a large number of facts

Scientific Theory - ANS-structure of ideas that explain wide range of observations supported by abundant evidence, rigorously tested easily confirmed/verified Examples:

Geology= plate tectonics
Bio= Natural selection

Physics= relativity; time runs at different speeds Astronomy= big bang theory; helps explain the universe

The fields in Oceanography: geology, chemistry, etc... how are they used within oceanography? - ANS-Physical Oceanography - study of the motions (waves, tides, currents), study of ocean atmosphere in relation to climate, and transmission of light/sound

Chemical Oceanography - chemistry of seawater and reactions between the atmosphere and hydrosphere. More recently looks at how changes in seawater temperature (El Nino) and salinity affect global climate. Dissolved components, tempt. dependence, stratification/density

Biological Oceanography - study of life in the oceans, includes marine biology and ecology.

Geological Oceanography - study of the shape/ structure of the sea and sea floor, also how it changes and the history of sediments, plate tectonics

Astronomy - tidal forces, oceans on other planets, origin of water, origin of life Geographical Oceanography- wind belts, weather, coastal landforms, world climate

# **Oceanography Study Guide Answers**

**JS Bruner** 

#### **Oceanography Study Guide Answers:**

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