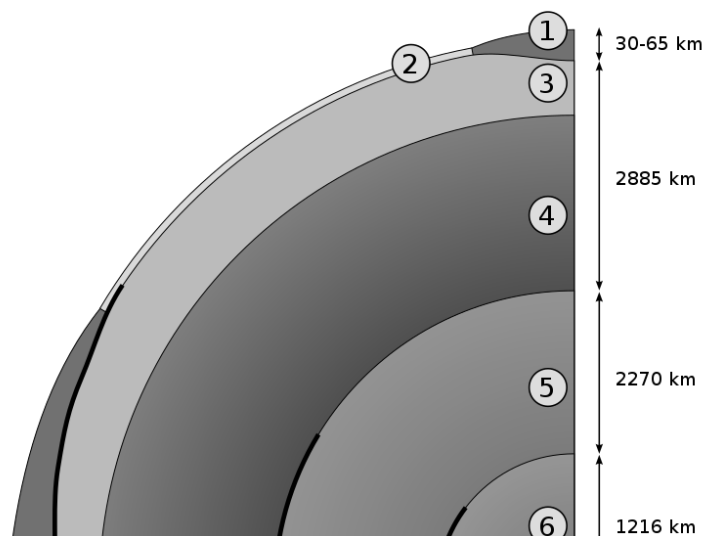




Questions:

- 1- Explain briefly what happens in the following boundaries:
 - a. Divergent boundaries
 - b. Convergent boundaries
 - c. Transform boundaries
- 2- The classification of minerals is based on several criteria, what are those criteria?
- 3- Rocks are classified into three major categories based on their composition, origin, or mode of formation, name these categories and give an example of each one of them.
- 4- We study stratigraphy to understand the history of the earth, how?
- 5- Name 4 principals of stratigraphy
- 6- Complete each number with its appropriate structure:





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Answers:

- 1- Explanations: (3 pts)
 - a- Divergent boundaries: These are where tectonic plates move away from each other, resulting in the production of new oceanic crust.
 - b- Convergent boundaries: At convergent boundaries, tectonic plates collide as a consequence of the divergence. This collision can lead to various geologic features such as mountain ranges, deep-sea trenches, and volcanic activity.
 - c- Transform boundaries: Transform boundaries involve tectonic plates sliding laterally past each other along faults.
- 2- The classification of minerals is based on several criteria: (4 pts)
 - Chemical Composition
 - Crystal Structure
 - Physical Properties
 - Geological Origin
- 3- Rocks are classified into three major categories based on their composition, origin, or mode of formation: (3 pts)
 - Igneous rocks: Granite, Basalt
 - Metamorphic rocks: Micaschist, marble
 - Sedimentary rocks: Sandstone, chert
- 4- We study stratigraphy to understand the history of the earth by: (2 pts)
 - Dating geological events
 - Reconstruction of past environments
 - Understanding the evolution of life
 - Identification of natural resources
 - Study of climate changes
 - Environmental planning and natural risk management
- 5- The principles of stratigraphy: (2 pts)
 - Principle of superposition
 - Principle of Original Horizontality
 - Principle of Lateral Continuity
 - Principle of Cross-Cutting
 - Principle of Inclusions
 - Principle of Faunal Succession
- 6- We complete each number with the appropriate structure: (6 pts)
 - 1) Continental crust
 - 2) Oceanic crust
 - 3) Upper mantle
 - 4) Lower mantle
 - 5) Outer core
 - 6) Inner core