1.	What geologic events are implied by a disconformity? By an angular unconformity?	6%
2.	How do a stream's channel dimensions (width, depth) and velocity adjust in response to changes in discharge?	9%
3.	Image that the Earth some day becomes devoid of water. How would the nature of chemical weathering change in polar region? In the arid subtropical deserts? In the equatorial tropics?	8%
4.	Describe the types of plate boundaries, and give an example of each.	
		6%
5.	List major processes that occur along each type of plate boundary.	6%
6.	Describe the motion and velocity of the three major types of seismic waves.	9%
7.	Discuss the relationship between the surface of the ground, the zone of aeration, and the zone of saturation in a structure-isotropic area, i.e., no fault, no folding, and no alternate pervious and impervious layers.	ne te 6%

- 8, Briefly describe the hydrologic cycle on Earth surface. Where does the energy that drives the cycles come from? (8%)
- 9, Explain where and why you would expect to find exceptionally thick accumulations of sedimentary rock. (8%)
- 10, What natural factors explain the recurrence of glacial events on time scales of tens of thousands of years? (8%)
- 11, How and why are the temperature and salinity of surface ocean water related to latitude? (8%)
- 12, What are the sources of water in hot springs on land? How do hydrothermal solutions form on seafloor near the mid-ocean ridges and how do they form mineral deposits. (8%)
- 13, List three causes of climate change that result from the interaction of Earth's internal and external systems. (10%)