

國立中山大學96學年度博士班招生考試試題

科目：海洋地質學 【海地化所選考】

共 頁 第 頁

1. What are the major bathymetric features commonly observed in the deep Pacific? Please describe each and discuss its origin briefly. (20%)
2. What is the "seafloor spreading" hypothesis? What evidence may support this hypothesis? (20%)
3. What are the major factors causing the sea level changes in regional and global scales? Can you elaborate and discuss the consequences of these changes? (20%)
4. What are "bulk density" and "dry bulk density" of a sediment sample collected by a corer? How do you estimate the sedimentary flux if the sedimentation rate, sediment density and water content are prescribed? (20%)
Note: You should pay attention to the units used.
5. Sedimentary environments are quite different between marginal sea and open ocean. Can you give a detailed comparison with an intelligent discussion? (20%)