

題號： 102
科目：海洋化學
節次： 1

國立臺灣大學101學年度碩士班招生考試試題

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※ 注意：請於試卷內之「非選擇題作答區」依序作答，並應註明作答之大題及小題題號。

1. Please explain the following terms (30%, 3% each)
 - a. Salinity;
 - b. T-S diagram;
 - c. nutrient;
 - d. size of sand;
 - e. alkalinity;
 - f. scavenging;
 - g. upwelling;
 - h. AOU;
 - i. excess Pb-210;
 - j. degree of carbonate saturation.
2. Please compare and explain differences and similarity of the followings (40%, 8% each):
 - a. Gulf Stream vs. Kuroshio Current;
 - b. Conservative vs. non-conservative mixing;
 - c. AABW vs. NADW;
 - d. phototroph vs. chemotroph;
 - e. anaerobic vs. aerobic.
3. What are the known major organic carbon production and oxidation processes? (10%)
4. Please explain the “iron hypothesis” and describe biogeochemical cycle of iron in the ocean. (20%)

試題隨卷繳回