

國立中山大學八十九學年度碩博士班招生考試試題

科目：海資所（海洋資源學）

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一、選擇題（20%，單選，答對得2分，答錯倒扣1分）

- \_\_\_\_\_ 1. Seawater contains about \_\_\_\_\_ % dissolved substances.  
(1) 35, (2) 30, (3) 3.5, (4) 0.35, (5) 3.0.
- \_\_\_\_\_ 2. Approximately \_\_\_\_\_ % of the surface of the Earth is covered by salt water.  
(1) 60, (2) 70, (3) 80, (4) 50, (5) 81.
- \_\_\_\_\_ 3. Which of following oceans is the largest in the world ?  
(1) South China Sea, (2) Atlantic ocean, (3) Pacific ocean,  
(4) North Sea, (5) Indian ocean.
- \_\_\_\_\_ 4. Which of the following ions is not the major constituents of seawater ?  
(1) Magnesium, (2) Sulfate, (3) Potassium,  
(4) Bicarbonate, (5) Calcium.
- \_\_\_\_\_ 5. Which of the following organisms is not a sea-food resources ?  
(1) Swordfish, (2) Jellyfish, (3) Cuttlefish, (4) Lungfish, (5) Finfish.
- \_\_\_\_\_ 6. Which of these ecosystems has the lowest primary productivity per square meter ?  
(1) Salt marsh, (2) Open ocean, (3) Coral reef, (4) Grassland, (5) Mangrove swap.
- \_\_\_\_\_ 7. Which of the following marine environment has the highest fish production ?  
(1) Oceanic zone, (2) Continental shelf, (3) Intertidal zone,  
(4) Continental rise, (5) Abyssal plain.
- \_\_\_\_\_ 8. Which of the following depth is the average depth of ocean ?  
(1) 400 km, (2) 4000 km, (3) 400 m, (4) 4000 m, (5) 40 km.
- \_\_\_\_\_ 9. Which of the following chemical resources can be extracted from seawater in the most profitable way ?  
(1) Freshwater, (2) Salt, (3) Gold, (4) Uranium, (4) Magnesium.
- \_\_\_\_\_ 10. Which of the following resources is a non-renewable resources ?  
(1) Solar energy, (2) Wave energy, (3) Gas energy, (4) Water energy, (5) Tuna.

二、申論題（80%）

1. 請論述人類利用的海洋資源可分為那幾大類，並舉例詳細說明這些資源的種類及其利用方式？此外，又該如何永續利用這些珍貴的海洋資源？（50%）
2. 我們常說海洋為‘生命之母’；請就你的認知論述此說之內涵？（20%）
3. 中國大陸長江三峽水壩的建造是近代人類建築史上最龐大的水利工程，請問如此重大的陸域工程建設與海洋資源的永續利用會不會有關聯？若有關聯，請說明其間的關聯性？（10%）