

Time: as NTU requested, close book, no calculator, answers can be in either English or Chinese.

1. Please explain, in detail, the following terms (40%, 4% each):
 - a. Salinity,
 - b. nutrients,
 - c. conservative tracer,
 - d. pycnocline,
 - e. aerobic respiration,
 - f. NAEC,
 - g. chemolithoautotrough,
 - h. particle scavenging,
 - i. lysocline
 - j. cold seep.
2. Please use at least 3 parameters to describe global deep water circulation patterns (15%).
3. Please describe oceanic nutrients vertical and horizontal variations (15%)
4. Please describe sources and sinks of trace metal in the ocean, and their, at least 3, vertical variations (15%).
5. Please describe how and why ΣCO_2 and alkalinity vary in the ocean (15%)

試題隨卷繳回