

國立臺灣海洋大學 103 學年度研究所碩士班招生考試試題

考試科目：英文閱讀

系所名稱：海洋環境化學與生態研究所碩士班不分組

\*可使用紙本英漢字典

1. 答案以橫式由左至右書寫。2. 請依題號順序作答。

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試題：請將下列短文英翻中。

1. Both rising sea temperatures and acidification become increasingly extreme throughout this century, along with other climate change impacts such as rising sea levels and more frequent - and more severe - storms. (15%)
2. Rising sea temperatures are already having a major influence on the distribution of marine species and, as with rising temperatures on land, on the timing of the cycles of life in the Ocean. They are also partly responsible for the phenomenon of coral bleaching, devastating large areas of the world's coral reefs. (25%)
3. Ocean acidification is a direct result of the absorption of carbon dioxide by the Ocean. This threatens all marine animals and plants that secrete calcium carbonate as part of their structure. We believe that this has already caused a reduction in the size and growth rates of some marine animals. (25%)
4. There is an urgent need to reduce CO<sub>2</sub> emissions. However, even this will not guarantee that the Ocean will not be severely impacted by climate change by the middle of the century or earlier. (15%)
5. There is also a pressing need to develop carbon sinks to reduce current CO<sub>2</sub> levels in the atmosphere. The current target of 450 ppm CO<sub>2</sub> in the atmosphere and/or 2 °C temperature will not guarantee the viability of some marine ecosystems. (20%)