

PAPUR ARHOLIAD / EXAMINATION PAPER

LLEOLIAD / LOCATION:	ABERTAWE / SWANSEA
CYFNOD ARHOLIADAU / EXAMINATION PERIOD:	MAI 2026 / MAY 2026
LEFEL / LEVEL:	5

MODIWL / MODULE: ACNA5001 COASTAL, MARINE AND WILDLIFE CONSERVATION

AMSER / TIME:	2 HOURS
CYFARWYDDIADAU / INSTRUCTIONS:	ANSWER <u>TWO</u> QUESTIONS OUT OF <u>FOUR</u>

Adnoddau neu ddefnyddiau sydd eu hangen / Equipment or materials required:
Dewiswch o'r canlynol os gwelwch yn dda / Please select from the following:

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Llyfr Agored / Open Book ☐

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Arall nodwch os gwelwch yn dda / Other please specify

Office Use Only:

Author:		Semester:	
Internal Verifier:		R Y/N?	Yes / No (Please delete as applicable)
Contribution to Overall Module Assessment (%):			

ANSWER TWO QUESTIONS

1. Ocean acidification is one of the biggest threats facing the planet today. It is a process being strongly driven by climate change, and is producing huge impacts on marine and coastal biodiversity.
 - a. Discuss the causes of ocean acidification, with reference to both the chemical and physical mechanisms causing it, and the sources of this acidity. You may use diagrams if you wish. **[15]**
 - b. Evaluate the impacts of ocean acidification on marine biodiversity, using examples. **[35]**

2. Saltmarshes are important coastal habitats for biodiversity, coastal defence and blue carbon storage.
 - a. Describe the biotic and abiotic factors by which saltmarshes are formed. **[25]**
 - b. Discuss the primary threats to saltmarshes and the impacts of each on these ecosystems. **[25]**

3. Sea ice and permafrost thaw in the Arctic are leading to both physical and biotic changes in the region. Describe these changes and appraise their impacts on Arctic ecosystems. **[50]**

4. “The number of overfished stocks globally has tripled in half a century and today fully one-third of the world's assessed fisheries are currently pushed beyond their biological limits.” (WWF, 2025)

Discuss the issue of overfishing, with reference to its causes, impacts, and the potential solutions. Use case studies where necessary. **[50]**

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