

## 問題番号[ 1 5 ] <海洋生物学>

(解答は英語・日本語のどちらでもよい[ラテン語/英語と指示してある場合以外]。文法の間違いは採点に影響しない)

( 1 ) Choose TWO topics from the following six and discuss. (25 points each, total 50 points)

- (a) Characteristics of coral reef ecosystems
- (b) Morphological and ecological characteristics of phytoplankton
- (c) Problems of acidification in the sea
- (d) Overexploitation of marine life
- (e) Concept of keystone species
- (f) Ecological characteristics of detritivores in estuaries

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( 1 ) Organisms inhabiting intertidal habitats often demonstrate unique characteristics in their ecology, behaviour, morphology and physiology. Give examples and discuss in terms of adaptation to harsh environmental conditions. (25 points)

( 2 ) Echinodermata is a unique phylum which can only be found in the marine environment.  
(total 25 points)

(a) Describe the characteristics of its body plan. (15 points).

(b) Give names of five sub-groups in Latin/English. (10 points)