

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

MARINE SCIENCE

Paper 2 SPECIMEN MARK SCHEME 5180/02 For Examination from 2014

1 hour 30 minutes

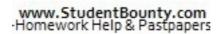
MAXIMUM MARK: 60

This document consists of 4 printed pages.



UNIVERSITY of CAMBRIDGE International Examinations

[Turn over



		2 Studies	
1	(a)	Axes labelled correctly (species and number caught per hour or catch rate) ; Bars labelled / key ; Each bar plotted correctly (5 marks) ;	aounty.com
	(b)	214 ÷ 5; = 42.8 fish per hour ; [correct answer only gains both marks]	[2]
	(c)		[2]
		(ii) Lemon sole ; Any two of:	[1]
		References to differences in stocks / numbers ; Reference to differences in habitat of these fish ; Reference to seasons ; Reference to mesh size of net ;	[2]
	(e)	Damage to corals / eq ; Catch non-target species / eq ;	[2]
		[Tc	otal: 15]

		S.	
		3	
2	(a) A	ny three of:	
	R R D P	3 ny three of: reate new habitat for marine organisms / eq ; eference to tourism / diving / fishing ; educe erosion of shore ; issipate energy of waves / eq ; rotect anchorages ; reate waves for surfing ; [3]	iom
	(b) (i) Concrete ; Steel ; [2]	L
	(ii) Steel balls / bridge rubble / iron and steel railway engine / steel tower / concrete telephone poles / concrete boxes / steel girders ; [1]	
	(c) (i) Any two of:	
		Reference to availability ; Heavy (so sinks) ; Unlikely to move during a storm ; Large surface area (for attachment of organisms) ; Hollow (to provide habitat) ; [2]	
	(ii) 291; [1]	
	(iii) South Carolina ; [1]	
	(iv	 Aluminium is lighter / less dense than steel ; Aluminium corrodes in sea water ; Aluminium is more expensive than steel / eq ; Reference to foam making them buoyant ; 	
	(v) Engines contain fuel / oil ; Fuel / oil could leak out ; Reference to oil floating / moving away ; Causing pollution ;	
		Harmful to marine organisms / eq ; [3]	
		[Total: 15]	

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