CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2013 series

0680 ENVIRONMENTAL MANAGEMENT

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0680/11

Paper 1, maximum raw mark 60

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



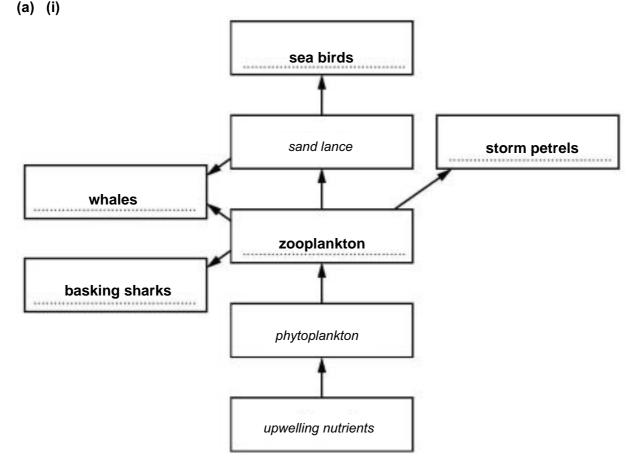
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General notes

Symbols used in Environmental Management mark schemes.

- / separates alternatives for a marking point other valid ways of expressing the same idea are also credited
- ; separates points for the award of a mark
- [3] indicates the number of marks available
- *italic* indicates that this is information about the marking points and is not required to gain credit italic text is also used for comments about alternatives that should be accepted, ignored or rejected
- ora or reverse argument shows that an argument from an alternative viewpoint will be credited
- AW alternative wording, sometimes called 'or words to that effect' AW is used when there are many different ways of expressing the same idea
- the word / phrase in brackets is not required to gain marks but sets the context of the response for credit
 e.g. (nuclear) waste nuclear is not needed but if it was described as a domestic waste then no mark is awarded
- volcanic underlined words the answer must contain exactly this word
- ecf error carried forward if an incorrect answer is given to part of a question, and this answer is subsequently used by a candidate in later parts of the question, this indicates that the candidate's incorrect answer will be used as a starting point for marking the later parts of the question

	Page 3		Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2013	0680	11
1	(a)	• •	ather atmospheric conditions / over short term / clima a of climate = average weather;	te over long term;	[2]
		(i) clos	se to / buried in the ground;		[1]
		(ii) win	d direction;		[1]
	(she but OR bar she	rmometer; elter from rain / direct radiation / AW; still allow air circulation; ometer; elter from rain / direct radiation / AW; still allow air circulation;		[3]
		tempera	ature always high / above 25 °C; nigh / >150 mm;		[3]
					[Total: 10]
2	(a)	(i)			



all 5 for (3), 3 or 4 for (2), 2 for (1), 1 or 0 for (0)

[3]

(ii) warm nutrient poor surface water blown offshore / cold water is allowed to rise here;

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	(iii)	(El Nino) causes warm surface waters to replace colo which thus hold less oxygen; fish die / migrate; less nutrients; same effect on fish;	1;	[3]
	ger	eral idea of loss of species useful to humans; eral food chain effect; s of possible sources of drugs; ds;		
	mig	ht need varieties, which gone, when / if climate chang	es;	[3]
				[Total: 10]
3	• •	er medical care; ding to higher survival of both young and old;		
		er food supply / storage; ding to longer life;		
		er sanitation; Jing to higher survival of both young and old;		
		[.] of old age; ding to production by couples of large family to look af	ter them;	
	(1)	for factor stated, (1) for development		[4]
	(b) (i)	correct completion; (light grey = house, mid grey =0)		[1]
	(ii)	11.38/3.7 = 2.99/3;		[1]
	(iii)	not go on / go on less holidays; upgrade home insulation; turn off appliances / lights when not wanted;		
		use public transport / walk / cycle; reference to alternative energy a named alternative e	energy and relevant a	a person X; [4]
				[Total: 10]
4	(a) (i)	reduced area; relevant comment on shape / extent;		[2]
	(ii)	population growth in bordering countries; increased water for domestic use; industrial / farming use;		
		taken out of Jordan river; drainage of lake in southern end; land reclamation;		[4]

Page 5		Syllabus	Paper
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mor bric don repa colle	e shower not bath; re water economical methods of plant watering / e.g k in cistern idea; 't run taps when not needed; air leaks; ect rain water for plants etc.; er economical irrigation, trickle drip;	J.;	[4
			-
			[Total: 10]
(a) (i)	oil; coal; gas; (1) for 1, (2) for all 3		[2]
(ii)	made from dead bodies of (once) living things;		[1]
(b) (i)	correct plots;		[1]
(ii)	435 / 300 000 (× 100); = 0.145 %;		[2]
(iii)	named alternative energy sources introduced (onc provision of incentives for energy conservation / do taxing energy from fossil fuels to reduce usage; promotion for public transport; afforestation projects; recycling (as long as linked properly to energy save	omestic alternative energies	rgy usage; [4] [Total: 10]
(a) (i)	0.5 + 1.5 + 3.5; 5 %; humus, living organisms are organic;		[2]
(ii)	photosynthesis – water; respiration – air / oxygen; making proteins – minerals ((a) nitrate / sulfur / sul	phate);	[3]
(b) (i)	water which has soaked into ground from (rain / si	now / etc.);	[1]
(ii)	pollutants from e.g.;		
	storage tanks / septic systems / hazardous waste s pesticides;	sites / landfills / road sa	lts / fertilisers / [2]
(iii)	consuming untreated water / water from industrial	pollution area;	
	heavy metals / example poisonous / toxic; microbes / example cause disease;		[2]
			[Total: 10]