UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2011 question paper

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for the guidance of teachers

0680 ENVIRONMENTAL MANAGEMENT

0680/12

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 must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

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	Page 2			Mark Scheme: Teachers' version	Syllabus	Paper				
				IGCSE – October/November 2011	0680	12				
1	(a)	(i)	oxyg	[1]						
		(ii)	wate	er vapour;		[1]				
	(b)	(i)	pern	nanent/long term changes in weather patterns;		max [1]				
		(ii)	give whic	burning fossil fuels; give off carbon dioxide; which traps heat and warms atmosphere; ref greenhouse effect;						
		(iii)		n off /use alt energy max [2]						
		(iv)	inab	inability to produce enough food/drought/floods/heat wave deaths/AVP;;						
						[Total: 10]				
2	(a)	(i)	A;			[1]				
		(ii)	mos	ses and lichens;		[1]				
		(iii)	plan shru trees soil l later	ses replace lichens; ts with roots/owtte, replace mosses; bs come in; s come in; puilds up; plants outcompete earlier ones; npetition for) light/water/minerals;		max [4]				
		(iv) they both need the same resource/named resource;								
	(b)		loss extir colla	tat loss; of food supply; action; upse of food chain; iversity loss;		max [3] [Total: 10]				

	Page 3	3	Mark Scheme: Teachers' version					Syllabus		Paper		
				IGCS	E – Oct	ober/No	ovembe	r 2011		0680		12
3	(a) (i)	66(%);						[1]				
	(ii)	correct plotting (ecf); % of total;										
		Cent	Central and South America;								[3]	
	(iii)		Disadvs: can control price/make it expensive/lead to tension/war; Advs: infrastructure needed fewer times, saves money;							r;	[2]	
	(b) (i)	18%;								[1]		
	(ii)	availability locally/pollution laws/;								[1]		
	(iii)	wind	wind/HEP/geothermal/tidal/wave/biomass/nuclear AVP;;								[2]	
												[Total: 10]
4	(a) (i)	current reversal in Southern Oc leading to warmer seas there; due to weak trade winds;					an/off P	eru/in Pac	cific;			[2]
	(ii)			er (Whe g data q	en El Nir uoted;	וס);						[2]
	(iii)	 (iii) warm water carries less nutrients/minerals; phytoplankton die; less food for fish; also less oxygen; 										
						nese fact	tors;					max [3]
		 (b) measure wind speed/direction and air/ocean temperature;; main factors involved in El Niño; 							[3]			
												[Total: 10]

	Page 4	Mark Scheme: Teachers' versi	on Syllabus	Paper
		IGCSE – October/November 20	011 0680	12
5	(a) (i)	light/sun(light);		101
		carbon dioxide;		[2]
	(ii)	photosynthesis;		[1]
	(iii)	irrigation/named kind;		[1]
	(b) (i)	a long period;		
		with little or no rain; in an area where rain is usually more frequer	nt;	max [2]
	(ii)	shower not bath;		
		hand rather than machine wash; do not allow taps to run;		
		water garden with collected rainwater;		
		repair leaks; AVP;		max [2]
	()			
	(iii)	charge more; install meters;		
		deal with wastage;		101
		AVP;		max [2]
				[Total: 10]
6	(a) (i)	Middle East;		[1]
	(ii)	USA (or Europe);		[1]
	(iii)	(119.4+25.2)–(25.4) =119.2 MT; [Allow 2 marks for correct result. 'Show worki	ing' not asked in QP]	[2]
	(iv)	no, because it is all found N of equator except	ot some Asia/Pacific;	[1]
	(b) (i)	because they only get a small fraction of the one example of what else cost goes on; because of price fluctuations in cost; but rise in production:	final costs;	mov [2]
		but rise in production;		max [2]
	(ii)	inadequate energy supply to run factory;		
		lack of skilled labour to make products; lack of money to make products;		max [3]
				[Total: 10]