## MARK SCHEME for the October/November 2011 question paper

## for the guidance of teachers

## 0680 ENVIRONMENTAL MANAGEMENT

0680/13 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.

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 2			2	Mark Scheme: Teachers' version IGCSE – October/November 2011	Syllabus	Paper				
				13						
1	(a)	(i)	oxyg	[1]						
		(ii)	wate	[1]						
	(b)	(i)	perm	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)		rn off 2/use alt energy max [2]						
		(iv)	inab	;; max [2]						
						[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;		[1]				
(b)			loss extin colla	tat loss; of food supply; iction; ipse of food chain; iversity loss;		max [3] <b>[Total: 10]</b>				

	Page 3	8	Mark Scheme: Teachers' version		Syllabus	Paper				
			IGO	CSE – Octobe	r/November 201	1	0680	13		
3	(a) (i)	66(%)	);					[1]		
	(ii)	% of t	,	(ecf); uth America;				[3]		
	(iii)		Disadvs: can control price/make it expensive/lead to tension/war; Advs: infrastructure needed fewer times, saves money;							
	(b) (i)	18%;						[1]		
	(ii)	availa	ability loca	lly/pollution la	ws/;			[1]		
	(iii)	wind/	[2]							
								[Total: 10]		
4	(a) (i)	leadin		ner seas there	Dcean / off Peru / iι ;	n Pacific;		[2]		
	(ii)		varmer (W orting data	hen El Nino); quoted;				[2]		
	(iii)	phyto less f	n water ca oplankton food for fis less oxyge	die; sh;	ents/minerals;					
				e due to these	factors;			max [3]		
				d/direction an d in El Niño;	d air/ocean temp	perature;;		[3]		
								[Total: 10]		

13
[2]
[1]
[1]
max [2]
max [2]
max [2]
[Total: 10]
[1]
[1]
[2]
[1]
max [2]
max [3]
max [0]