

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2011 question paper

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.

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



	Page 2			Mark Scheme: Teachers' version	Syllabus	Paper	
				IGCSE – May/June 2011	0680	12	
1	(a)	(i)	phot	osynthesis;		[1]	
		(ii)	soil/eq; ® ground				
			carbon dioxide; light/radiation; (R) rays				
			chloi	[4]			
	(b)	(i)	trickle drip;				
		(ii)	 agriculture which ensures that conditions are still as good for the practice generations; (Reject use of word sustainable or its derivatives as key part of answer) 				
	(iii) A;						
			For / wate	A: er directed at roots;			
				lost (in evaporation);			
B: water broadcast/eq ;							
	so can evaporate ; doesn't get to plant; For Either:						
	ref. salinisation (i.e. less with A, or more with B. Or can say more v discuss low leaching with A.);					th A as long as [3]	
						[Total: 10]	
2	(a)	(i)	hunt	er-gatherer;		[1]	
		(ii)	-	eper of stock/cattle/AVP;			
			who moves his animals to fresh pasture when necessary; does not stay in one place (stand alone mark); [2]				
	(b)	(i)		sm which caters to those interested in natural envir	onments/eq;		
	(ii)			tourist money to protect environment; must be protected to keep money coming in;		[2]	
					fect nomadic nas		
			conservationists want to protect animals that might affect nomadic pastoralists – latter might kill animals etc. that conservationists want to keep ;				
				then egs such as: ebeest/herbivores, compete with cattle;			
			lions	/other predators predate/eat cattle;	<i>"</i>		
			restr	icts movement of nps/reluctance of nps to share ho	ome/land	[3]	
		(iii)	any 2	2 of: amation/restoration;			
			repla	ace overburden/add soil; ® just filling hole			
				fertiliser/eq/; t (trees etc.);			
			allov	ving water to infill depressions – lakes;			
			ievel	ling spoil heaps;		[2]	
						[Total: 10]	

	Page 3			Mark Scheme: Teachers' version	Syllabus	Paper 12	
				IGCSE – May/June 2011 0680			
3	(a) (i) (ii) (iii)		B C	evaporation; transpiration/evapotranspiration; precipitation/rainfall/eq; for 2; any 2 or 1 for 1		[2]	
				ration water enters soil/ground (and then drains awa off does not enter soil/flows along ground (before dra		a); [2]	
			desa	alination;		[1]	
	(b)	b) (i) 32.8;			[1]		
		 (ii) correct bars drawn; (tuna must just be below 9th line, shrimps must be in middle of 7th and 8th 					
		(iii)	(too) fish upw low	ino; ersal of current/current changes direction;) warm/eq; not adapted to warm; elling stops; nutrients; ess food/eq;			
			fish	migrate/eq;		[3]	
						[Total: 10]	
4	(a) (i)			mometer; e shade/not in direct sunlight/S screen;		[2]	
		(ii)	clea conc OR can Sun (NO idea	npbell-Stokes; r glass sphere; centrates light on recording sheet which is burnt; Jordan's; with pinhole; darkens photosensitive paper inside when shines t TE. Can give one for correct name of device as a of paper burning or being affected in some way by of doing this)	bove. General id		
	(b)	(i)	hour °C/F	rs/duration/amount of sunshine, per (or /) month; ;		[2]	
		(ii)	sola	r;		[1]	
	(c) (i) anemometer;			mometer;		[1]	
		(ii)	 birds killed; aesthetic; noise; uses land, qualified (e.g., agricultural, beautiful); 				
						[Total: 10]	

me: Teachers' version	Syllabus	Paper		
– May/June 2011	0680	12		
 a) fishing for food/eq; (Must say or imply food) wave/tidal energy; tourism/recreation; bulk/large/heavy/eq transport; drinking water/irrigation/domestic water use; (but only if some sugge first') oil/gas/eq; 				
ot just fish killed or die) beaches; ualified);		[3]		
ergent/burning/sucking up		[1]		
		[1]		
ents or named; er; .g. lack of oxygen, food	/eq (e.g. aerobes/e	q); ® death of [3]		

[Total: 10]

	Page 5		Mark Scheme: Teachers' version		Syllabus	Paper			
			<u> </u>	IGC	SE – May/Jun	e 2011	0680	12	
6	(a) (i)	deve	developing: 3.3/3.3 billion;				[1]		
	(ii)	deve	developed: 0.3 billion (ignore other attempts at this figure as lot there somewhere!!);				figure as long as	s correct one in [1]	
	(iii)	any (e.g. eq),	eloping r social fa family ref. birth sfer of m	d/ora; he parents/no (pe	ension systems/ [3]				
	(b) (i)							[1]	
	(ii)	high data low(equa In B: more data more data more (Not Whe Can OR 1							
								[Total: 10]	