MARK SCHEME for the October/November 2010 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.

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	Page 2		2	Mark Scheme: Teachers' version	Syllabus	Paper
				IGCSE – October/November 2010	0680	12
1	(a)	(i)	C;			[1]
		(ii)	А ре			
				ne and pressure; ne and pressure;		[3]
			C un			[0]
	(b)	(i)	min			
				pse of tunnel; lue to gases from coal;		
			pois	oning from coal gases/silicosis;		
				thing problems;		[may 2]
			flood	ing,		[max 2]
				ronment		
				pollutes ground and water around mine; on dioxide/owtte when burnt;		
				scape destruction/visual pollution (open cast);		[max 2]
	(b)	(ii)	wind			
	()	()	hep;			
			geot nucl	hermal; ear:		
			tidal			
			wave biofu			[max 2]
			DIOIC			[11103 2]
2	(a)	(i)		d S of tropics/equator;		
			Afric S As			
			WS	America;		
			AVP	(relevant countries named);		[max 2]
		(ii)	sun;			
			vapo evap	poration;		
			cond	lenses;		
			clou rain;			
			snov	v (owtte);		
			sea/	ocean; half each/round down		[max 4]
	(b)	(i)	Peru	I		[1]
		(ii)	Peru			[1]
		(iii)	quot	as/seasons/net size;		
				vant explanation;		[2]

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	Page 3			Mark Scheme: Teachers' version	Syllabus	Paper
				IGCSE – October/November 2010	0680	12
3	(a)	(i)	(abs = 18) + (reflection = 32) = 50%; earth abs = 100–50 % = 50% ;		[2]	
		(ii)	meth	on dioxide; nane; er vapour;		[max 2]
	(b)	(i)	diag but t	[2]		
		(ii)	publ car s	:/cycle/reduce car use; ic transport/take more people for less money per he sharing; biofuels in cars;	ead;	
				on neutral (idea);		[4]
4	(a)	(i)		mmonia/ammonium; itrate;		[2]
		(ii)	wate	on dioxide; er; relevant minerals other than N;;		[max 2]
	(b)	(i)	caus alga	isers – get into water/rivers/streams; se algal growth; e die; and use up oxygen;		
				suffocate; ophication;		[max 2]
			get a kill o kills	icides – get into food chains; amplified (owtte); or harm those at top of chain; harmless/valuable species; a of poisoning humans for ONE)		[max 2]
		(ii)	exar	ogical control; nple given; ciple described (e.g. predator/parasite/disease introc	duced);	[max 2]

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	Page 4			Mark Scheme: Teachers' version	Syllabus	Paper
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5	(a)	(i)	500-	–600 million;		[1]
		(ii)	1200	00/300; = 40;		[2]
	(b)	(i)	WAT	L: loss/erosion/depletion of nutrients/fertility lost; TER: polluted/named pollutant/increasing scarcity; SETATION: loss/removal/killing;		[3]
		(ii)	bette pens decr up to	th [4]		
6	(a)	(i)	C; A; B;			[3]
		(ii)	weat	thering;		[1]
	(b)	(i)	(wat	er) erosion;		[1]
		(ii)	B: te C: co	ee planting/afforestation; erracing; ontour ploughing; helter belt; 1/2 each round down		[2]
		(iii)	in pł farm	oval of trees stops them taking in CO ₂ ; notosynthesis; n machinery; s out CO ₂ burning fossil fuels;		[max 3]