## MARK SCHEME for the October/November 2010 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.

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Page 2			Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2010	0680	13
(a)	(i)	C;			[1]
	(ii)				
					[3]
		C un			[0]
(b)	(i)				
		poise	oning from coal gases/silicosis;		
					[mov 2]
		1000	ing,		[max 2]
	-				
					[max 2]
(b)	(ii)	wind			
(5)	(")				
		-			
					[may 2]
		DIOIL	ieis;		[max 2]
(a)	(i)				
		WS	America;		
		AVP	(relevant countries named);		[max 2]
	(ii)				
		cond	lenses;		
		snov	v (owtte);		
		sea/	ocean; half each/round down		[max 4]
(b)	(i)	Peru	I		[1]
	(ii)	Peru	I		[1]
	(iii)	quot	as/seasons/net size;		
	(a) (b) (a)	(a) (i) (ii) (b) (i) (a) (i) (ii) (ii)	<ul> <li>(b) (i) mine colla fire o poise brea floor field (a) (b) (ii) wind hep; geot nucle tidal wave bioft.</li> <li>(b) (ii) N an Afric S As W S AVP</li> <li>(ii) Sun; vapo evap conce cloud rain; snow sea/a</li> <li>(b) (i) Peru</li> </ul>	IGCSE – October/November 2010         (a) (i) C;       (ii) A peat; B time and pressure; C time and pressure; C time and pressure;         (b) (i) miners collapse of tunnel; fire due to gases from coal; poisoning from coal gases/silicosis; breathing problems; flooding;         environment spoil pollutes ground and water around mine; carbon dioxide/owtte when burnt; landscape destruction/visual pollution (open cast);         (b) (ii) wind; hep; geothermal; nuclear; tidal; wave; biofuels;         (a) (i) N and S of tropics/equator; Africa; S Asia; W S America; AVP (relevant countries named);         (ii) sun; vapour; evaporation; condenses; clouds; rain; snow (owtte); sea/ocean; half each/round down         (b) (i) Peru	iGCSE - October/November 2010       0680         (a) (i) C;       B lime and pressure; C time and pressure; C time and pressure;       0680         (b) (i) miners collapse of tunnel; fire due to gases from coal; poisoning from coal gases/silicosis; breathing problems; flooding;       environment spoil pollutes ground and water around mine; carbon dioxide/owtte when burnt; landscape destruction/visual pollution (open cast);         (b) (ii) wind; hep; geothermal; nuclear; tidal; wave; biofuels;       wind; hep; geothermal; nuclear; tidal; wave; biofuels;         (a) (i) N and S of tropics/equator; Africa; S Asia; W S America; AVP (relevant countries named);       (i) sun; vapour; evaporation; condenses; clouds; rain; snow (owtte); sea/ocean; half each/round down         (b) (i) Peru

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	Page 3		6	Mark Scheme: Teachers' version	Syllabus	Paper
				IGCSE – October/November 2010	0680	13
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	oon 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;		
			fish	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				
				IGCSE – October/November 2010	0680	13				
5	(a)	(i)	500-	–600 million;		[1]				
		(ii)	1200	00/300; = 40;		[2]				
	(b)	(i)	WA	L: loss/erosion/depletion of nutrients/fertility lost; TER: polluted/named pollutant/increasing scarcity; GETATION: loss/removal/killing;		[3]				
		(ii)	pens decr	better educated women; have less children; pension schemes; mean think do not need so many children for old age; decreased infant mortality; means do not have more to insure against death up to 2 for each						
6	(a)	(i)	C; A; B;			[3]				
		(ii)	wea	thering;		[1]				
	(b)	(i)	(wat	er) erosion;		[1]				
		(ii)	B: te C: ce	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 <sub>2</sub> ; notosynthesis; n machinery; s out CO <sub>2</sub> burning fossil fuels;		[max 3]				