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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

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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[2]

Page 2)	Mark Scheme: Teachers' version	Syllabus
				IGCSE – October/November 2010	0680
1	(a)	(i) (ii)	C; A peat; B time and pressure; C time and pressure;		Syllabus 0680 O680 Talkacalinahida
	(b)	(i)	collar fire of poise brea flood envi spoil	apse of tunnel; due to gases from coal; oning from coal gases/silicosis; athing problems;	[max 2]
	(b)	(ii)	wind hep;	scape destruction/visual pollution (open cast); I; thermal; ear; ;	[max 2]
2	(a)	(i)	Afric S As W S	nd S of tropics/equator; ca;	[max 2]
		(ii)	cond cloud rain; snow	our; ooration; denses; ds;	[max 4]
	(b)	(i)	Peru	ı	[1]
		(ii)	Peru	I	[1]

(iii) quotas/seasons/net size; relevant explanation;

				~
	Page 3	Mark Scheme: Teachers' version	Syllabus	.0
		IGCSE – October/November 2010	0680	123
2	(a) (i) (aba	= 10) L (reflection = 22) = 500/:		Car

- (a) (i) (abs = 18) + (reflection = 32) = 50%;earth abs = 100-50 % = 50%;
 - (ii) carbon dioxide; methane; water vapour;

[max 2]

- (b) (i) diagram showing IR radiation leaving Earth surface; but being scattered or in some way not allowed to leave by gh gases; [2]
 - (ii) walk/cycle/reduce car use; public transport/take more people for less money per head; car sharing; use biofuels in cars; carbon neutral (idea);

[4]

(a) (i) A: ammonia/ammonium; B: nitrate;

[2]

(ii) carbon dioxide; water: any relevant minerals other than N;;

[max 2]

(b) (i) fertilisers – get into water/rivers/streams; cause algal growth; algae die; rot and use up oxygen;

fish suffocate; eutrophication;

[max 2]

pesticides - get into food chains; get amplified (owtte); kill or harm those at top of chain; kills harmless/valuable species; (idea of poisoning humans for ONE)

[max 2]

(ii) biological control; example given;

principle described (e.g. predator/parasite/disease introduced);

[max 2]

[max 3]

	Page 4			Mark Scheme: Teachers' version	Syllabus
				IGCSE – October/November 2010	0680
5	(a)	(i)	500-	–600 million;	Alnu.
		(ii)	1200	00/300; = 40;	Syllabus 7 App 1 O CAMPARTA TO THE SYNTHETIS OF THE SYNTH
	(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	er educated women; have less children; sion schemes; mean think do not need so many child reased infant mortality; means do not have more to in o 2 for each	
6	(a)	(i)	C; A; B;		[3]
		(ii)	wea	thering;	[1]
	(b)	(i)	(wat	ter) erosion;	[1]
		(ii)	B: te	ree planting/afforestation; erracing; eontour ploughing; helter belt; 1/2 each round down	[2]
		(iii)	in pł	oval of trees stops them taking in CO ₂ ; hotosynthesis;	

farm machinery;

gives out CO₂ burning fossil fuels;