UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

WANN, PapaCambridge.com 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
		IGCSE – October/November 2010	0680 202
(a)	(i)	С;	Syllabus 0680 (3)
		A peat;	30110
	(")	B time and pressure;	
		C time and pressure;	[3]
	<i>(</i> -)	_	
(b)	(i)	miners collapse of tunnel;	
		fire due to gases from coal;	
		poisoning from coal gases/silicosis;	
		breathing problems;	Imax 2
		flooding;	[max 2]
		environment spoil pollutes ground and water around mine;	
		carbon dioxide/owtte when burnt;	
		landscape destruction/visual pollution (open cast)	; [max 2
(b)	/;;)	wind:	
(u)	(11)	wind; hep;	
		geothermal;	
		nuclear;	
		tidal;	
		wave; biofuels;	[max 2]
(a)	(i)	N and S of tropics/equator;	
		Africa;	
		S Asia; W S America;	
		AVP (relevant countries named);	[max 2]
	(ii)	sun;	
		vapour;	
		evaporation; condenses;	
		clouds;	
		rain;	
		snow (owtte);	
		sea/ocean; half each/round down	[max 4
(b)	(i)	Peru	[1]
		Peru	[1]
			['.
	(iii)	quotas/seasons/net size; relevant explanation;	[2]
			[2.

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	ge 3	Mark Scheme: Teachers' version IGCSE – October/November 2010	Syllabus 0680
			0000 °C
(a)	(i)	(abs = 18) + (reflection = 32) = 50%; earth abs = 100–50 % = 50% ;	Syllabus 0680 0680
		earth abs = 100-50 % = 50%,	
	(ii)	carbon dioxide;	
		methane; water vapour;	[max
			-
(b)	(i)	diagram showing IR radiation leaving Earth surface;	
		but being scattered or in some way not allowed to leave	e by gh gases;
	(ii)	walk/cycle/reduce car use;	
		public transport/take more people for less money per h car sharing;	ead;
		use biofuels in cars;	
		carbon neutral (idea);	
(a)	(i)	A: ammonia/ammonium;	
		B: nitrate;	
	(ii)	carbon dioxide; water;	
		any relevant minerals other than N;;	[max
(b)	(i)	fertilisers – get into water/rivers/streams;	
		cause algal growth; algae die;	
		rot and use up oxygen;	
		fish suffocate; eutrophication;	[max
			linax
		pesticides – get into food chains; get amplified (owtte);	
		kill or harm those at top of chain;	
		kills harmless/valuable species;	Imov
		(idea of poisoning humans for ONE)	[max
	/;;)	biological control;	
	(ii)	example given;	

