UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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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.

Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page		Syllabus	· A
	IGCSE – May/June 2012	0680	"ac
General no	otes		ente
Symbols us	sed in Environmental Management mark schemes.		1
ı	separates alternatives for a marking point – ot idea are also credited	er valid ways of expre	w.papacambhile
;	separates points for the award of a mark		
[3]	indicates the number of marks available		
[max 3]	the number shows the maximum number of mar are more marking points than total marks availab		stion where there
max 3]	when part of the marks of a question must com indicated by non-bold marks showing the inte question these non-bold marks are also used to show schemes are used	nal maxima for differ	ent parts of the
talic	indicates that this is information about the man credit italic text is also used for comments about alterr or rejected		
ora	or reverse argument – shows that an argument credited	t from an alternative v	viewpoint will be
ΑW	alternative wording, sometimes called 'or words AW is used when there are many different ways		idea
()	the word / phrase in brackets is not required to response for credit e.g. (nuclear) waste – nuclear is not needed but then no mark is awarded	-	
volcanic	underlined words – the answer must contain exa	tly this word	
ecf	error carried forward – if an incorrect answer answer is subsequently used by a candidate in that the candidate's incorrect answer will be use parts of the question	ater parts of the question	on, this indicates

Page 3	Mark Scheme: Teachers' version	Syllabus Syllabus
	IGCSE – May/June 2012	0680
a) (i)	wind / Aeolian / AW; (ignore extras like mill)	Syllabus 0680 e sea / AW;
(ii)	on a hill / e.q. / lack of buldings / open space / near the	e sea / AW;
(iii)	oil / gas / coal / fossil fuels;	
(iv)	waste is radioactive; can cause cancer; can cause mutations; is costly to store; remains for a long time; difficult to dispose of;	
	ref. to explosions / use by terrorists;	[ma
b) (i)	50% of 7% = 3.5%;; if answer incorrect, credit correct	t working to max 1
(ii)	walking; cycling; public transport; car sharing; ref. to insulation; ref. to turning off relevant appliances (lights etc); ref. solar panels / solar water heating; recycling suitably qualified; biofuels; fuel cells; ref. locally sourced products;	

reject clean burn fuel

[max 3]

Page 4 Mark Scheme: Teachers' version	Syllabus Syllabus
IGCSE – May/June 2012	0680

Cambridge.com 2 (a) (i) falls / decreases / AW.; a further detail e.g. from a rate to a new rate, from a date to a date, by an amount comment on differing rate, e.g slow then fast, levelling off;

(ii) rises; whereas mortality rate falls / some detail such as from / until, from / to rate;

(b) (i)

PULL
В
E
F
Н
1

10-12 for 4; 7-9 for 3; 5-8 for 2; 2-4 for 1;

(iii) rural to urban / village to town / village to city; urbanisation; (ignore suffixes) accept migration;

[2]

[4]

Pa	age 5	<u>ن</u> ز	Mark Scheme: Teachers' version	Syllabus
·	<u>.</u>		IGCSE – May/June 2012	0680 202
(a)) (i)	carb	oon dioxide;	anno
	(ii)	using grow	ning coal, oil and gas C and/or D ng aerosols A wing rice B ning refined petroleum E and/or D;;	Syllabus 0680 Babacanbi
			r 2 3 for 1 1 for 0	
	(iii)	CFC	·. · · · · · · · · · · · · · · · · · ·	[
	(iv)	aero	osols / sprays (ignore type); air conditioning; refrigerat	ators; foam blowing agent; [
(b)	(i)	UV c sight muta effec	s in <u>UV</u> (light); causes cancer; it problems; ation of ; cts on amphibia; burn / e.q.;	[;
	(ii)	(ban	ned substitute (e.g. HCFCs / HFCs reject Halons / use ns on / fines for / laws against) use of CFCs; <u>Montreal</u> protocol reject unqualified protocol;	e atomiser); [/
(a)) (i)		0–800 = (520); /800 (× 100) = 65%; allow ecf	[;
	(ii)	more more ref. te	e money for local people; e jobs; e money for government; to development use to which money put (e.g. education astructure / raised standard of living etc.); e foreign exchange (\$,£,€;) ?;	ion, health care, housing / [a
(b)	(i)	supp detai decre	to: cational aspect; port of conservation; ail of conservation; reases chance of extinction; s / money culture aspect for local people;	[:
	(ii)	ref. d ref. e ref. c ref. b	dangers of any / all of Big 5; damage to crops / infrastructure; eating of cattle / e.q.; completion with cattle / e.q.; bushmeat / e.q. / use in medicine / ivory / rhino horn; of tribal lands;	; [1

Page 6		<u>;</u>	Mark Scheme: Teachers' version Syllabus	S. L
			IGCSE – May/June 2012 0680	Par
(a)	(i)	1974	4;	/ Janacannun improved
	(ii)	overf	rfishing / pollution / increased demand / increased human population /	improved
	(")		ng technology / fish migration / ref. climate change / e.q.;	Improved
	(iii)	anots	tas / net hole / mesh size / restricted seasons / restricted zones / fines	/ licenses
	(,		tegies to reduce pollution / restriction young fish catch	[3
(b)	(i)		ect plot for 2; mostly correct for 1;	
		•	fors identified by labelling or key;	[3
	(::)			
	(ii)		ble hulls; e oil by pipeline;	
			s against cleaning tanks out;	[2
(a)	(i)	1050	0–1960	[1
(a)	(1)	1900	J-1900	
	(ii)	5 yea	ars	[1
(b)	(i)	Y		[1
	(ii)	points Y:	ts to suit choice in (b)(i) : (ecf principle)	
		narro	ow part;	
		so va	alley sides act as walls;	
		0	atest head of water; atest force;	
		bette	er than Z because fewer people will live at Y;	
		bette	er X since flow not high here;	
		Z: (if	f given in (b)(i)	
		Near	r people who need power:	
			e advantage of full flow of river; trai river / raduce floading;	
		AVP;	trol river / reduce flooding; ;	
		V· (if		
			f given in (b)(i) ht about high so power of flow;	
		Gives	es more energy / e.q.;	
		A.w.o.	ay from people so reduced disturbance;	٢/
		-	1	
		Away AVP		[4
(c)		AVP water	er based;	[4
(c)		AVP water typho		[3