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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper for the guidance of teachers

0680 ENVIRONMENTAL MANAGEMENT

0680/11

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.

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General notes

Symbols used in Environmental Management mark schemes.

/ separates alternatives for a marking point – other valid ways of expressing the same idea are also credited

; separates points for the award of a mark

[3] indicates the number of marks available

[max 3] the number shows the maximum number of marks available for the question where there are more marking points than total marks available

[max 3] when part of the marks of a question must come from part of the mark scheme, this is indicated by non-bold marks showing the internal maxima for different parts of the question

these non-bold marks are also used to show marks for bands where banded mark schemes are used

schemes are used

italic indicates that this is information about the marking points and is not required to gain

credit

italic text is also used for comments about alternatives that should be accepted, ignored

or rejected

ora or reverse argument - shows that an argument from an alternative viewpoint will be

credited

AW alternative wording, sometimes called 'or words to that effect' –

AW is used when there are many different ways of expressing the same idea

() the word / phrase in brackets is not required to gain marks but sets the context of the

response for credit

e.g. (nuclear) waste - nuclear is not needed but if it was described as a domestic waste

then no mark is awarded

volcanic underlined words – the answer must contain exactly this word

ecf error carried forward – if an incorrect answer is given to part of a question, and this answer is subsequently used by a candidate in later parts of the question, this indicates

that the candidate's incorrect answer will be used as a starting point for marking the later

parts of the question

Page 3		Mark Scheme: Teachers' version Syllabus		Syllabus
	rage 3		IGCSE – May/June 2012	0680 %
1	(a) (i)	33, 1	n top left to bottom right: 14, 80, 95;;	Syllabus 10 A Collaboration of the Collaboration of
	(ii)		for 2, 2 or 3 for 1, 0 or 1 for zero lation;	•
	(b) (i)		enhouse gases; of carbon dioxide, water <u>vapour,</u> CFCs, methane, ni	trous oxide; [2]
	(ii)	cycle / walk / public transport / insulate house / use less power through turning off light / not using standby / AVP; [1]		
	(iii)	relea OR cultiv relea OR keep relea OR using relea OR defo	ning fossil fuels (in cars / power stations); ases carbon dioxide; vating rice; ases methane; oing cattle; ases methane; g aerosols / fridges / AC; ases CFCs; orestation; anation of reduced carbon dioxide uptake;	[max 4]
2	(a) (i)	mair in be	nly coastal; elts;	[2]
	(ii)		e boundaries; ch move / collide;	[2]
	(b) (i)	man beau	le soils; ny precious stones / AW; utiful environment / tourism; thermal energy; o;	[max 2]
	(ii)		ano (more) predictable; ano less widespread effects;	[2]
	(iii)	som	lity of buildings; le aspect of disaster relief; liction (for volcanoes);	[max 2]

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	Page 4	Mark Scheme: Teachers' version	Syllabus	1
	ı age -	IGCSE – May/June 2012	0680	2
		1000L May/outle 2012	0000	SC.
3	(a) (i)	evaporation and transpiration infiltration interception run-off C A B;;		a Cambridge
		all 4 for 2, 2 or 3 for 1, 0 or 1 for zero		[2]
	(ii)	photosynthesis; through the roots;		[2]
	(b) (i)	correct plot; sectors identified by key;		[2]
	(ii)	lots of irrigation; which helps draw up salt;		[2]
	(iii)	irrigation water on surface; salt drawn to soil surface; evaporation leaves salts behind; hard crust of salt forms;		[max 2]
4	(a) (i) (ii)	similarities: slow early growth; fast growth in middle; (note: one mark for idea of both rise) differences: plateau / AW in small mammal population, none in human small mammal population regulated / limited; by food / predators / AVP, human population not (yet);	[max 2] n population [max 1]	
	(b) (i)	22 years;		[1]
	(ii) (iii)	better food / diet; medical care; sanitation; AVP;		[max 2]
	()	lack of investment; impact of North / South divide;		[max 2]

	Page 5		Mark Scheme: Teachers' version	Syllabus	7.0 T
	i age e		IGCSE – May/June 2012	0680	St.
5	(a) (i)	cons ener carb nitro	ducer tosynthesis sumer(s) rgy oon ogen;;; (carbon and nitrogen either order)		W. PapaCambridge
		all 6	for 3, 4 or 5 for 2, 2 or 3 for 1, 1 or 0 zero		[3]
	(ii)	whe 1 fo	eat	todes;;	[2]
	(b) (i)	pest	ticides / accept insecticides;		[1]
	(ii)	kill /	into food chain; damage (higher) predators / man; implification, or described;		[3]
	(iii)	nam	ned pest with named predator introduced as bio conf	trol;	[1]
6	(a) (i)	oxy(gen AND er;		[1]
	(ii)		box for pH 5.0 or 6.8; ept any value or range between 5.5 and 8		[1]
	(iii)	sand clay sand	,		[3]
	inte sul	ensive bsiste	re, uses small inputs of (labour / money / fertiliser etc.) e, uses high inputs of (labour / money / fertiliser etc.) nce, producing enough for ones needs / AW; cial, farming for sale of products;		[4]
		d mar	lisers; nure / AW; numes;		[max 1]