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

0680/12

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.

• 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

AW

volcanic

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

then no mark is awarded

[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

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

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

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

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

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1 (a) (i) wind / Aeolian / AW; (ignore extras like mill)

[1]

(ii) on a hill / e.g. / lack of buldings / open space / near the sea / AW;

[1]

(iii) oil / gas / coal / fossil fuels;

[1]

(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;

[max 2]

(b) (i) 50% of 7% = 3.5%;; if answer incorrect, credit correct working to max 1

[2]

(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]

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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, some comment on differing rate, e.g slow then fast, levelling off; [2]

(ii) rises;

whereas mortality rate falls / some detail such as from / until, from / to rate;

[2]

[4]

(b) (i)

PUSH	PULL
Α	В
С	E
D	F
G	Н
J	I
K	
L	

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]

Page 5						Mar				Teache				Sylla		P	aper	
							IGC	SE –	M	ay/Jun	e 2012	2		06	80		12	
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	(i	iii)	CFC;	,														['
	(i	iv)	aeros	sol	s/s	pray	s (igr	nore t	yp	e); air d	condition	oning;	refriger	ators; foa	am blow	ing age	ent;	[1
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	Page	6	Mark Scheme: Teachers' version	Syllabus	Paper						
			IGCSE – May/June 2012	0680	12						
5	(a) (i)	1974	4;		[1]						
	(ii)	overfishing / pollution / increased demand / increased human population / improved fishing technology / fish migration / ref. climate change / e.q.;									
	(iii)		tas / net hole / mesh size / restricted seasons / restri tegies to reduce pollution / restriction young fish cato		/ licenses						
	(b) (i)	plot	ect plot for 2; mostly correct for 1; ors identified by labelling or key;		[3]						
	(ii)	more	ble hulls; e oil by pipeline; s against cleaning tanks out;		[2]						
6	(a) (i)	1950	0–1960		[1]						
	(ii)	5 ye	ears		[1]						
	(b) (i)	Υ			[1]						
	(ii)	Y: narr so v grea grea bette bette Z: (ii Nea Take Con AVF X: (ii Poir Give	f given in (b)(i) It about high so power of flow; Es more energy / e.q.; En from people so reduced disturbance;		[4]						
	(c)	wate typh	er based; loid / cholera; er bred; (accept water-related (insect) vector)		[3]						