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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

0680/12

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

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

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

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

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

[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 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;

[2]

(b) (i)

PUSH	PULL
А	В
C	E
D	F
G	H
J	l I
K	
L	

10-12 for 4;

7-9 for 3;

5-8 for 2;

2–4 for 1;

[4]

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

[2]

Page 5		Mark S	Scheme	e: Teachers'	version	Syllabus	2.D			
					May/June 20		0680	OD3		
3	(a)	(i)	carb	on dioxide;					Cal	76.
		(ii)	using grow	ning coal, oil an g aerosols ving rice ning refined pet	_	C and/or D A B E and/or D;	·		A. Papacal.	Tidde [2]
				2 3 for 1 1 for 0						
		(iii)	CFC	; ;						[1]
		(iv)	aero	osols / sprays (i	gnore ty	ype); air cond	litioning; refriger	ators; foam blowi	ng agent;	[1]
	(b)	(i)	UV of sight	in <u>UV</u> (light); causes cancer; t problems; ation of ; cts on amphibia ourn / e.q.;	a;					[3]
		(ii)	(ban	ned substitute (on some son / fines for Montreal protocol	/ laws a	against) use d		se atomiser);		[2]
4	(a)	(i)		0–800 = (520); /800 (× 100) = (65%; all	low ecf				[2]
		(ii)	more more ref. t infra	structure / rais e foreign excha	vernme use to ed stand	ent; which money dard of living		ation, health care,	housing /	[3]
	(b)	(i)	supp deta decr	to: cational aspect cort of conservati il of conservati reases chance / money cultur	ation; on; of extin	•	ople;			[3]
		(ii)	ref. or ref. or ref. or	dangers of any damage to crope eating of cattle completion with bushmeat / e.q of tribal lands;	os / infra / e.q.; ı cattle /	astructure; / e.q.;	ivory / rhino horr	n;		[2]

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	(0)	/:\	107		0680 Page	8
5	(a)	(i)	1974	+ ,		onnbride d
		(ii)		fishing / pollution / increased demand / increased hong technology / fish migration / ref. climate change /		d &
		(iii)	•	tas / net hole / mesh size / restricted seasons / restricted seasons / restricted seasons / restriction young fish cate		es [3]
	(b)	(i)	plot	ect plot for 2; mostly correct for 1; ors identified by labelling or key;		[3]
		(ii)	more	ole hulls; e oil by pipeline; s against cleaning tanks out;		[2]
6	(a)	(i)	1950	D–1960		[1]
		(ii)	5 ye	ars		[1]
	(b)	(i)	Υ			[1]
		(ii)	Y: narre so vi grea bette bette bette Z: (if Nea Take Con AVP X: (if Poin Give Awa	f given in (b)(i) It about high so power of flow; It as more energy / e.q.; It is given by from people so reduced disturbance;		
	(c)		AVP	· · · · · · · · · · · · · · · · · · ·		[4]
				oid / cholera; er bred; (accept water-related (insect) vector)		[3]