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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

## 0680 ENVIRONMENTAL MANAGEMENT

0680/11

Paper 11, 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.

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

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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Page 2		ge 2	2 Mark Scheme: Teachers' version Syllabus	8
			IGCSE – May/June 2010 0680	Pac
1	(a)	(i)	evaporates; cools as rises/condenses; turns back into water (or ice);	Papa Cambridge
		(ii)	polluted/not clean/AW; (waterborne) diseases/people get ill/AW; two examples of pollutants;	[3]
	(iii)		chlorination; kills organisms; desalination; gets rid of salt/makes it drinkable; filtration; gets rid of particles; any one correct method and description	[2]
	(b)	sha high thus	astal/continental plate; allow water; gh nutrients; us plenty of food for fish; ) for one mark, where cold and warm currents meet	[any 3]
2	(a)	(i)	1600 × 2.5; = 4000 RM;	[2]
		(ii)	breeding; improved yield/flavour etc.; pesticides; kill pests which reduce yield; herbicides; kill weeds which compete; GM; improve yield/flavour etc.; irrigation; increase yield; fertilizers; increase yield; AVP	[4]
	(iii)		a cash crop is grown for money; not to provide grower or others with adequator converse arguments	ate food; [2]
	(b)	fibre	res; medicines; biofuels/use as fuel; any use of wood;	[2]
3	(a) (i)		nitrogen oxides (or any specific/correct); sulphur dioxide; (NOTE allow correct)	v formulae if [2]
		(ii)	factories/power stations; cars (eq);	[2]
	(	(iii)	(S emissions from) volcanoes/bacterial action soil/vegetation/lightning;	[1]
	(b)		because fossil fuel burning gives off the gases; alternatives do not;	[2]
		(ii)	turn off lights; walk/cycle/instead of car; car share; hybrid cars insulate house (any method); AVP; any three	[3]

	Page	3	Mark Scheme: Teachers' version	Syllabus	7.0
	r age o		IGCSE – May/June 2010	0680	25
4	(a) (i)	arro	es, flies, glow worms; ws in correct direction; ΓΕ max two if pyramid drawn		M. PapaCambridg
	(ii)	pred	lator;		[1]
	(b) (i)	2. w 3. pe 4. pi	cop them getting food; by causing lights to go off; ater pollution; reduces food for flies that glow worms eople trample glow worm habitat; kill worms; rovide boardwalk/path; with explanatory signage; two ways with suitable descriptions	s eat;	[4]
	(ii)	2. ba 3. ba 4. hi	an torch use; explain why with leaflet/boards; an water entry; leaflets/boards/fencing; an; leaflets/boards/fencing; ire out night vision equipment; one way that has been described		[2]
5	(a) we	eathere	ed; rock;		[2]
	(b) (i)	All 7 5 or 3 or	ts; organic; organic; water; rocks; clay; little 7 for 4 6 for 3 4 for 2 2 for 1		[4]
	(ii)	plou over	orestation; afforest/conserve/avp; ghing; contour plough; grazing; rotate animals; cultivate; rotate two		[4]
6	(a) (i)	1980	O (±1);		[1]
	(ii)	1993	3; –5.2%;		[2]
	(iii)	dest rise	ral fluctuations to 1980; release of CFCs from 19 croys ozone; levels fall; Montreal protocol – reference after 1994; TE Max 2 for just descriptions)	•	
			; (skin) cancer – reject skin damage; cataracts - depression; sunburn; any three	– accept eye	damage; immune [3]