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.

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		IGCSE – May/June 2010	0680	11
1	(a) (i)	evaporates; cools as rises/condenses; turns back into water (or ice);		[2]
	(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	d description	[2]
	sha higi thu	astal/continental plate; allow water; h nutrients; is 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 or converse arguments	others with adec	quate food; [2]
	(b) fibr	res; medicines; biofuels/use as fuel; any use of wood;		[2]
3	(a) (i)	nitrogen oxides (or any specific/correct); sulphur diox correct)	kide; (NOTE all	ow formulae if [2]
	(ii)	factories/power stations; cars (eq);		[2]
	(iii)	(S emissions from) volcanoes/bacterial action soil/vegeta	tion/lightning;	[1]
	(b) (i)	because fossil fuel burning gives off the gases; alternative	es do not;	[2]
	(ii)	turn off lights; walk/cycle/instead of car; car share; hybrid insulate house (any method); AVP; any three	cars	[3]

Mark Scheme: Teachers' version

Syllabus

Paper

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	Page 3		}	Mark Scheme: Teachers' version	Syllabus	Paper	
				IGCSE – May/June 2010	0680	11	
4	(a)	(i)	arro	es, flies, glow worms; ws in correct direction; E max two if pyramid drawn		[3]	
	((ii)	pred	ator;		[1]	
	(b)	(i)	2. wa 3. pe 4. pr	op them getting food; by causing lights to go off; ater pollution; reduces food for flies that glow worms cople trample glow worm habitat; kill worms; covide 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; re out night vision equipment; one way that has been described		[2]	
5	(a)	(a) weathered; rock;					
	(b)	(i) (ii)	All 7 5 or 3 or 1 or defo	ts; organic; organic; water; rocks; clay; little for 4 6 for 3 4 for 2 2 for 1 restation; afforest/conserve/avp;		[4]	
			over	ghing; contour plough; grazing; rotate animals; cultivate; rotate two		[4]	
6	(a)	(i)	1980) (±1);		[1]	
		(ii)	1993	3; –5.2%;		[2]	
	 (iii) natural fluctuations to 1980; release of CFCs from 1980; gives rise to chlor destroys ozone; levels fall; Montreal protocol – reference to banning of CFCs; rise after 1994; (NOTE Max 2 for just descriptions) 						
				; (skin) cancer – reject skin damage; cataracts lepression; sunburn; any three	– accept eye da	mage; immune [3]	