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.

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		IGCSE – May/June 2010 0680	11				
1	(a) (i)	cools as rises/condenses; turns back into water (or ice);	[2]				
	(ii)	(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	n [2]				
	sha higi thu	/continental plate; water; trients; enty of food for fish; [an] one mark, where cold and warm currents meet					
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 or converse arguments	adequate 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 dioxide; (NOT correct)	E allow formulae if [2]				
	(ii)	factories/power stations; cars (eq);	[2]				
	(iii)	(S emissions from) volcanoes/bacterial action soil/vegetation/lightnin	ıg; [1]				
	(b) (i)	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]				

Pa	ige 3	3	Mark Scheme: Teachers' version	w.dynamicpape Syllabus	Paper
10	ige o	<u> </u>	IGCSE – May/June 2010	0680	11
(a)	(i)	leaves, flies, glow worms; arrows in correct direction; NOTE max two if pyramid drawn			[3
	(ii)	pred	ator;		[
(b)		2. w 3. pe 4. pr any	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; 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; re out night vision equipment; one way that has been described		[
(a)	wea	athere	ed; rock;		I
(b)	(i)	All 7 5 or 3 or	ts; organic; organic; water; rocks; clay; little for 4 6 for 3 4 for 2 2 for 1		[
	(ii)	plou over	restation; afforest/conserve/avp; ghing; contour plough; grazing; rotate animals; cultivate; rotate two		[
(a)	(i)	1980	D (±1);		[
	(ii)	1993	3; -5.2%;		[
	(iii)	dest rise	ral fluctuations to 1980; release of CFCs from 19 roys ozone; levels fall; Montreal protocol – referenc after 1994; TE Max 2 for just descriptions)	-	

(NOTE Max 2 for just descriptions)

(b) mutation; (skin) cancer – reject skin damage; cataracts – accept eye damage; immune system depression; sunburn; any three [3]