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.

	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper		
			IGCSE – May/June 2010	0680	11		
1	(a) (i)	cool	oorates; s as rises/condenses; s back into water (or ice);		[2]		
	(ii)	(wat	uted/not clean/AW; erborne) diseases/people get ill/AW; examples of pollutants;		[3]		
	(iii)	desa	rination; kills organisms; alination; gets rid of salt/makes it drinkable; tion; gets rid of particles; any one correct method ar	nd description	[2]		
	sha hig thu	(b) coastal/continental plate;shallow water;high nutrients;thus plenty of food for fish;(A) for one mark, where cold and warm currents meet					
2	(a) (i)	1600	0 × 2.5; = 4000 RM;		[2]		
	(ii)	pest herb GM; irriga	eding; improved yield/flavour etc.; icides; kill pests which reduce yield; bicides; kill weeds which compete; improve yield/flavour etc.; ation; increase yield; izers; increase yield;		[4]		
	(iii)		sh crop is grown for money; not to provide grower onverse arguments	r others with ade	quate food; [2]		
	(b) fibr	es; m	edicines; biofuels/use as fuel; any use of wood;		[2]		
3	(a) (i)	(a) (i) nitrogen oxides (or any specific/correct); sulphur dioxide; (NOTE allow formula correct)					
	(ii)	facto	ories/power stations; cars (eq);		[2]		
	(iii)	(S e	missions from) volcanoes/bacterial action soil/veget	ation/lightning;	[1]		
	(b) (i)	beca	ause fossil fuel burning gives off the gases; alternati	ves do not;	[2]		
	(ii)		off lights; walk/cycle/instead of car; car share; hybri late house (any method); AVP; any three	d cars	[3]		

	Page 3			Mark Scheme: Teachers' version	Syllabus	Paper	
				IGCSE – May/June 2010	0680	11	
4	(a)	(i)	arrov	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. hii	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	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 cl destroys ozone; levels fall; Montreal protocol – reference to banning of CFC 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]	