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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

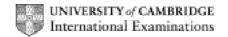
Paper 11, maximum raw mark 60

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.



	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	allow which nutrest in the second in the sec	continental plate; water; rients; nty of food for fish; ne mark, where cold and warm currents meet		[any 3]
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)		ause fossil fuel burning gives off the gases; alternati		[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	4 (a) (i)		arrov	es, flies, glow worms; ws in correct direction; E max two if pyramid drawn		[3]				
		(ii)	pred	ator;		[1]				
	2. 3. 4.		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	an torch use; explain why with leaflet/boards; an water entry; leaflets/boards/fencing; an; leaflets/boards/fencing; re out night vision equipment;		[2]				
			any	one way that has been described						
5	(a)	wea	athere	ed; rock;		[2]				
	(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		[4]				
		(ii)	ploug over	restation; afforest/conserve/avp; ghing; contour plough; grazing; rotate animals; cultivate; rotate two		[4]				
6	(a)	(i)		0 (±1);		[1]				
	(ii)		1993	3; –5.2%;		[2]				
d ri		desti	ral fluctuations to 1980; release of CFCs from 19 roys ozone; levels fall; Montreal protocol – referenc after 1994; TE Max 2 for just descriptions)							
(b) mutation; (skin) cancer – reject skin damage; cataracts – accept eye damage; immune system depression; sunburn; any three [3]										