

## WANN, Papa Cambridge, com 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	<b>V</b>
(a) (i)	Mark Scheme: Teachers' version Syllabus IGCSE – May/June 2010 0680 evaporates; cools as rises/condenses; turns back into water (or ice); polluted/not clean/AW; (waterborne) diseases/people get ill/AW;	ambride
(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]
sha higi thus	stal/continental plate; llow water; n nutrients; s plenty of food for fish; for one mark, where cold and warm currents meet	[any 3]
(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 adequate for or converse arguments	od; [2]
(b) fibre	es; medicines; biofuels/use as fuel; any use of wood;	[2]
(a) (i)	nitrogen oxides (or any specific/correct); sulphur dioxide; (NOTE allow form correct)	nulae if [2]
(ii)	factories/power stations; cars (eq);	[2]
(iii)	(S emissions from) volcanoes/bacterial action soil/vegetation/lightning;	[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]

Page 3		Mark Scheme: Teachers' version	Syllabus Syllabus
		IGCSE – May/June 2010	0680
(-)		lances fling eleverence	Can .
(a)	(i)	leaves, flies, glow worms;	16
		arrows in correct direction;	
		NOTE max two if pyramid drawn	
	(ii)	predator;	Syllabus 0680 Babacanno
(b)	(i)	1. stop them getting food; by causing lights to go off;	
		2. water pollution; reduces food for flies that glow worms	s eat;
		3. people trample glow worm habitat; kill worms;	
		4. provide boardwalk/path; with explanatory signage;	
		any two ways with suitable descriptions	
	(ii)	1. ban torch use; explain why with leaflet/boards;	
		2. ban water entry; leaflets/boards/fencing;	
		<ol><li>ban; leaflets/boards/fencing;</li></ol>	
		<ol><li>hire out night vision equipment;</li></ol>	
		any one way that has been described	
(a)	wea	athered; rock;	
(b)	(i)	plants; organic; organic; water; rocks; clay; little	
()	(-)	All 7 for 4	
		5 or 6 for 3	
		3 or 4 for 2	
		1 or 2 for 1	
	(ii)	deforestation; afforest/conserve/avp;	
	.,	ploughing; contour plough;	
		overgrazing; rotate animals;	
		overcultivate; rotate	
		any two	
(a)	(i)	1980 (±1);	
(a)	(i)	1000 (±1),	
	(ii)	1993; –5.2%;	
	(iii)	natural fluctuations to 1980; release of CFCs from 19	-
		destroys ozone; levels fall; Montreal protocol - reference	e to banning of CFCs; levels th
		rise after 1994; (NOTE 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]