UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## www.papacambridge.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 Syllabus
_		IGCSE – May/June 2010	0680 20
(a)	(i)	evaporates; cools as rises/condenses; turns back into water (or ice);	Syllabus 0680 Papa r 0680 Syllabus r
	(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 a	and description [2]
	sha high thus	astal/continental plate; allow water; h 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 converse arguments	or others with adequate food; [2]
(b)	fibre	es; medicines; biofuels/use as fuel; any use of wood;	[2]
(a)	(i)	nitrogen oxides (or any specific/correct); sulphur d correct)	lioxide; (NOTE allow formulae if [2]
	(ii)	factories/power stations; cars (eq);	[2]
(	iii)	(S emissions from) volcanoes/bacterial action soil/vege	etation/lightning; [1]
(b)	(i)	because fossil fuel burning gives off the gases; alterna	tives do not; [2]
	(ii)	turn off lights; walk/cycle/instead of car; car share; hybr	rid cars

<ul> <li>any two ways with suitable descriptions</li> <li>(ii) 1. ban torch use; explain why with leaflet/boards;</li> <li>2. ban water entry; leaflets/boards/fencing;</li> <li>3. ban; leaflets/boards/fencing;</li> <li>4. hire out night vision equipment; any one way that has been described</li> <li>i) weathered; rock;</li> <li>(i) plants; organic; organic; water; rocks; clay; little</li> <li>All 7 for 4</li> <li>5 or 6 for 3</li> <li>3 or 4 for 2</li> <li>1 or 2 for 1</li> <li>(ii) deforestation; afforest/conserve/avp; ploughing; contour plough; overgrazing; rotate animals; overcultivate; rotate any two</li> <li>i) (i) 1980 (±1);</li> <li>(ii) 1993; -5.2%;</li> <li>(iii) natural fluctuations to 1980; release of CFCs from 1980; gives rise to chlorine; whi destroys ozone; levels fall; Montreal protocol – reference to banning of CFCs; levels th</li> </ul>	Pa	ige 3	3	Mark Scheme: Teachers' version Syllabus		
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		(iii)			-	
				•	•	
rise after 1994; (NOTE Max 2 for just descriptions)				,		[4]

- (NOTE Max 2 for just descriptions)
- (b) mutation; (skin) cancer reject skin damage; cataracts accept eye damage; immune system depression; sunburn; any three [3]