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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

## 0680 ENVIRONMENTAL MANAGEMENT

0680/11

Paper 1, 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 October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2			Mark S	Scheme: Teachers' version	Syllabus	o lr
	1 age 2			E – October/November 2010	0680	Obs.
1	(a)	(i)	long lag; sudden increase; (R) straight line of a ignore levelling off	Sapa Cambridge		
		(ii)	1 <b>C</b> ; 2 <b>A</b> ; 3 <b>B</b> ; 4 <b>D</b> ;			[4]
	(b)	(i)	poor / no hospitals excellent hospitals			[2]
		(ii)	better employment	ment; better wages; more jobs; bette conditions; a qualification where noted	r education;	[2]
2	(a)	(i)	krill; squid;			[2]
		(ii)	krill OR phytoplank	cton;		[1]
		(iii)	leopard seal; eleph 4 for 3 2–3 for 2 1 for 1	nant seal; squid; other birds;		[3]
	(b)	(i)	20 × 5000; = 100 0	000 units;		[2]
		(ii)		uch as predators / parasites or GM m g. of what barrier keeps out;	ethods);	[2]
3	(a)		A crust / lithospher B mantle; C core;	re;		[3]
		(ii)	R sedimentation	small rock particles / sediments / shel andstone / coal / avp o;	ls / organic matter;	[4]
	(b)	(i)	accurate plots;;			[2]
		(ii)	silver;			[1]

		J	IGCSE – October/November 2010 0680		
4	(a)	(i)	state of the atmosphere / troposphere; plus example pressure / temp / precipitation / rainfall / wind / sun; any 2 of above with correct explanations e.g.		
		(ii)	barometer; detail; thermometer; detail (e.g. screen etc.); rain gauge; detail; anemometer; detail; placement R wind gauge	[4]	
	(b)	(i)	correctly plotted points;;	[2]	
		(ii)	savannah; wet season, but always warm to hot;	[2]	
5	(a)	(i)	air air 19–20 shipping 9–10	[2]	
		(ii)	add nutrients; stimulate algal growth; dead bodies; decompose deplete oxygen; fish death; eutrophication;	[4]	
	(b)	(i)	seas linked to each other; currents move pollutants	[2]	
		(ii)	preventing: double hulls / pipelines;	[1]	
		(iii)	dealing: booms / detergent / skimmers / burn off;	[1]	
6	(a)	(i)	amount of energy / power / heat received on a surface / incoming solar radiation;	[1]	
		(ii)	342 - 242 = 100 units more; $\frac{100}{242} \times 100 = 41.3$ %; ((A) 41 but not 42) 242	[2]	
	ı	(iii)	nearness to coast / water body / (warm / cold) currents (large lake); amount of sno altitude; cloud cover; winds if say where from;	w; [2]	
	(b)	(i)	fossil fuels pollute; e.g.; fossil fuels running out / limited; fossil fuels non renewable; 3 marks for three bit can have one development mark with any. can award converse in any case	[3]	

(ii) HEP / geothermal / wave / wind / tidal / nuclear / biogas; relevant development;

Mark Scheme: Teachers' version

Syllabus

[2]

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