CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the May/June 2015 series

0680 ENVIRONMENTAL MANAGEMENT

0680/13 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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2015 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.



			Cambridge IGCSE – May/June 2015	0680	13
1	(a)	(i)	predation: tree shrew eating dung beetle/carrion fly;	,	
			seed dispersal: hornbill spreading seeds of fig/ tree shrew spreading seeds of fig/ elephant spreading seeds of fig/ Indian hornbill spreading seeds of giant lily;		
			pollination: fig wasp of fig/ carrion fly of giant lily or <i>Rafflesia;</i>		[3]
		(ii)	hornbill and elephant/hornbill and shrew/elephant and shrew/fig washrew/hornbill;	vasp and el	ephant/ [1]
	(b)	(i)	rice;		[1]
		(ii)	barley AND wheat;		[1]
	((iii)	plant breeding; detail;		
			genetic engineering; detail;		[4]
2	(a)	(i)	A: precipitation; B: evaporation; C: transpiration;		[3]
		(ii)	built-on land does not allow infiltration/D; so run-off/E is increased; leads to flooding;		[3]
	(b)	(i)	cholera and typhoid; water-based malaria;		
			Four correct for two marks. Two or three correct for one mark.		[2]
		(ii)	vector eradication; ref. to snail as vector; accept ref. to drugs;		[2]
3	(a)	(i)	ozone/methane/water vapour/any rare gas named;		[1]
		(ii)	removes: photosynthesis; returns: respiration/burning;		[2]
	(b)	(i)	carbon dioxide concentration going up year-on-year;		[1]

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		(ii)	suggests more carbon dioxide given out than taken in; ref. source of extra gas;		[2]
	((iii)	ref. seasons; more photosynthesis than respiration in summer vice versa in winter	er;	[2]
	(c)		carbon neutral/eq.; lained that CO ₂ given off is quickly taken back next growing season	/eq.;	[2]
4	(a)		pressure for both/ref. lots of time for both; marine creatures for oil, plants for coal;		[2]
	(b)	cor	rect numbers in correct places;;		
		All	four for two marks. Two or three for one mark.		[2]
	(c)	(i)	coal down;		
			then any two of: gas up; nuclear up slightly; oil down; renewables up;		ro1
		/ii\	a correct quantitative statement;		[3]
		(ii) (iii)	H.E.P./wind/geothermal/biomass/solar/wave; ref. pollution from fossil fuels;		[1]
	,	(,	ref. fossil fuels running out;		[2]
5	(a)	all i	a south of tundra/ORA; n northern hemisphere; h span whole of northern parts of Americas/Asia;		[2]
	(b)	leave save need red con	rees; ves on but winter/leaves not lost in winter; es energy; edle leaves; uces water loss; ical/branches slope down;		
		shed snow;			[4]

Mark Scheme

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Syllabus

Paper

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			Cambridge IGCSE – May/June 2015	0680	13
(c)	(i)	pasture, crops, buildings/roads, fuelwood, timber, mining, etc.;;		
			Four given for two marks. Two or three for one mark.		[2]
		(ii)	too cold for agriculture; not many humans as again too cold;		
			ORA		[2]
6 (a)	sed	imentary;		[1]
(1	b)	(i)	on surface v.s. underground; comparison of danger to miners; comparison of environmental effects; comparison of costs;		[4]
		(ii)	ref. specific pollution; ref. spoil; landscape effects;		[3]
	(iii)	ref. landscaping, restoration, reclamation; detail;		[2]

[Total: 60]