UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

0680 ENVIRONMENTAL MANAGEMENT

0680/43

Paper 4 (Alternative to Coursework), 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.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – October/November 2011	0680	43	
1	(a) (i)	rain	gauge;		[1]	
	(ii)	labe	lled axes;; plots;;		[4]	
	(iii)	yield yield ref to	rainfall associated with low yield/converse/eq; ls go up after high rainfall; ls go down after below average rainfall; o figures for two years in context; two)		[2]	
	(iv)	75(%	ó);;		[2]	
	(v)	880;	1.0;		[2]	
	(b) (i)	risk drop only	ng on only two crops; of crop failure; in price; mango can be used as food by farmer; two)		[2]	
	(ii)	less som	e food; risk of all crops failing; e fuel gained; one)		[1]	
	(iii)	good more land gree AVP	rent crops need different nutrients; s can be rotated; d nutrition; e value of production; very unlikely to be degraded; n manures possible; e.g. soil exhaustion; three)		[3]	
	(iv)	new help	rees may give less cloves/die; trees take time to be productive/eq; to maintain supply of cloves; one)		[1]	
2	(a) (i)	at ra	ndom/eq;		[1]	
	(ii)	snap only	oper; smaller fish left/eq;		[2]	
	(iii)	imm faste	erimental error; igration of longer/larger/older fish; er growth rate in fishing zone; one)		[1]	

Page 3	Mark Scheme: Teachers' version Syllabus		Paper					
		IGCSE – October/November 2011 0680			43			
(iv)	iv) same size net; further detail e.g. size/shape of holes; fish for same time; same depth; AVP e.g. same season; (any two)						[2	
(v)	more	at the sampling time/stated tir at around anot	ne;					[3
(b) (i)	(b) (i) (1) 4 3 2 6 5 (7) (5 correct 2 marks;; 3/4 correct 1 mark; less than 3 correct no mark.)					[2		
(ii) table layout suitable; suitable titles e.g. fish length (cm)/fish species/snapper/jacks/wrasse (any average length (cm);					y order);	[3		
(iii)	so le	mature fish lef ss very small f changes in fo	ish to grow in	future;				[3
(a) (i)	more	tourism/eq;						[1
(ii)	make plan wate shelf AVP	er from sun/wi		q;				[4
(iii)	on e reco	d height of tre many living tre	e plantations t es;	to see if they su				[2
(b) (i)	three	road drawn; paths; t be in sensible	e locations)					[2
(ii)	impo	onable improv rts for tourists; reason for ea	(any three)	n as toilets; a ee)	ccommodation	on; telephor	ne/internet;	foo [6
(c) (i)		es/interpretatio		ked to idea of es for observation		gestions' e.g	. more infor	me [4

Page 4	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2011	0680	43

(ii) add up each response option; find % for each response option/eq; [2]

(d) (i) more mats made for sale to tourists; more cooking needed for tourists; more colourful mats get higher prices/eq; (any two)

[2]

(ii) earn more money from mats; more jobs; as a cash crop; AVP; (any two)

[2]