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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

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

## **5014 ENVIRONMENTAL MANAGEMENT**

5014/22

Paper 2, 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.

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Р	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			GCE O LEVEL – October/November 2011	5014	22
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 o drop only	ng on only two crops; of crop failure; in price; mango can be used as food by farmer; two)		[2]
	(ii)	less some	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)	old t	rees may give less cloves/die; trees take time to be productive/eq;		[0]
		-	to maintain supply of cloves; one)		[1]
2 (a	) (i)	at ra	ndom/eq;		[1]
	(ii)	snap only	oper; smaller fish left/eq;		[2]
(i	(iii)	immi faste	erimental error; igration of longer/larger/older fish; er growth rate in fishing zone; one)		[1]

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(iv)	furth fish t sam AVP	ne size net; ner detail e.g. size/shape of holes; for same time; ne depth; of e.g. same season; of two)		[2]	
(v)	more	eat the sampling; e time/stated time; eat around another island;		[3]	
(b) (i)		1 3 2 6 5 (7) orrect 2 marks;; 3/4 correct 1 mark; less than 3 corre	ct no mark.)	[2]	
(ii)	table layout suitable; suitable titles e.g. fish length (cm)/fish species/snapper/jacks/wrasse (any order); average length (cm);				
(iii)	so le	mature fish left to breed; ess very small fish to grow in future; o changes in food chain;		[3]	
3 (a) (i)	more	e tourism/eq;		[1]	
(ii)	mak plan wate sheli AVP	ter from sun/wind;		[4]	
(iii)	on e reco how	aps in 'old forest'; edges of/in clove plantations to see if they survive; ord height of trees; many living trees remain/ numbers of living/dead tre v two)	es;	[2]	
(b) (i)	three	road drawn; e paths; st be in sensible locations)		[2]	
(ii)	impo	conable improvements such as toilets; accommodorts for tourists; (any three) d reason for each ;;; (any three)	dation; telephone	e/internet; food [6]	
(c) (i)		e questions, at least two linked to idea of 'tourist s es/interpretation boards/hides for observation/AVP;;; ut;		more informed [4]	

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(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]