## 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**

5014/21

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.

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				GCL O LLVLL - October/November 2011	3014	21		
1 (a	1)	(i)	fish: protein/oils/omega 3 and or 6/vitamin A/vitamin D/calcium; rice: carbohydrate/energy source/vitamin B/fibre; (do not allow vitamins/minerals/nutrients unqualified)					
	(	ii)	grow no n harv	an still produce food/rice during flooding; vs as fast as water rises/eq; leed to try and control water level/eq; vest earlier; v two)		[2]		
	(i	ii)	table that can record the data; suitable headings;; (must be for 7 days and a minimum of one of farmer/catch/number/type/weight)					
	(i	<b>v</b> )	to ca so ca (any	bility/eq; alculate average/mean; atches can be compared;/to give a more complete p one) not allow precise/accurate)	picture;	[1]		
d)	<b>)</b>	(i)	sex; age; (do r abio	/length;	fishing;	[2]		
	(	ii)	in ex com ref to	o taking samples for more than one year/eq; kactly the same way/eq; pare the catches/eq; o LEDC's/eq; v two)		[2]		
(c	;)	(i)	A;			[1]		
	(	ii)	C;			[1]		
	(i	ii)	from valid fish	fishing elsewhere/more people fishing; a same village; pollution; d example of pollution; disease; a two)		[2]		
(d	           	cills food furth not no b mar ref t	d cha ner ap breed oreed ny fisl	ng fish; ins altered; ppropriate explanation; ding fast enough; ling stock left; h not used for food/eq e.g. left in water; trophication;		[3]		

Mark Scheme: Teachers' version

Syllabus

Paper

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		GCE O LEVEL – October/November 2011	5014	21
(e) (i)	fines quota set n close no ca AVP	ng patrols; s/eq; as; nesh size; e season; atch areas/eq;		[2]
(ii)	EITH yes: OR no:	makes people aware; may help to save habitat; sfunding; more scientific interest; ref to law; (any two people will keep capturing it; habitat cannot be sbecome extinct/eq; more desirable; more poaching two)	o) saved/eq; so few	left its likely to
(f) (i)	some still s less still a ref to	able to fish; e power; some silt; annual flooding; able to grow rice; o generating local jobs; three)		[3]
(ii)	for exmore more econ ref to	e electricity/energy (than B); xpanding population; e flood control; e aid to build dam/eq; e jobs (than B); e money made by government (more quickly); nomy of scale; o developing more industry; two)		[2]
(a) (i)	some	e correct working; most C; least B;		[3]
(ii)	axes plots	ntation; s labelled (weight/kg and year/time or all years labell s (no errors); w line or bar graphs)	ed);;	[4]
(iii)	2005	5/2008; (allow ref to third or sixth year)		[1]
(iv)	26.2	5; × 10 = 262.5 (262/263); 262.5 (262/263);;		[2]
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			GCE O LEVEL – October/November 2011	5014	21
(b)	(i)	high free (allo	varm/tropical; rainfall/wet/monsoon; standing water; w savanna) two)		[2
	(ii)	mos too r canr as n canr so n no v ref to	d breeding of mosquito/eq; quito's breed in water; much water; not all be drained; eeded for rice; not spray all the water; ot all mosquitoes can be killed; accine yet; o cost; not stop mosquitoes biting humans; three)		[3
	(iii)	mak use appl use keep ref to	e a repellent from cashew shell/gum; of a repellent; y at night; of nets; o covered (at night); o reducing breeding sites of mosquitoes; malarial drugs; two)		[2
3 (a)	(i)	Octo	bber/November to March;		[1
	(ii)	-	three valid jobs;; 2:1)		[2]
(b)	(i)	-	three valid questions such as income, employment s skills ;;; ut;	, number of depe	ndents, relevant
	(ii)		ved developments: such as sewage works; small s s; paths for hiking; more jobs; other valid ideas; (ma		es/camps; smal
		othe	rictions: such as large hotels; restaurants; golf cour r valid ideas; (max 4) k for suitable qualifications in both parts/'/)	se; large roads; o	dumping wastes; [8]

Mark Scheme: Teachers' version

**Syllabus** 

Paper

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