UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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## for the guidance of teachers

## 0680 ENVIRONMENTAL MANAGEMENT

0680/41 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.

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.

Page 2			Mark Scheme: Teachers' versionSyllabusIGCSE – October/November 20110680	New Y
(a)	(i)	rice:	protein/oils/omega 3 and or 6/vitamin A/vitamin D/calcium; carbohydrate/energy source/vitamin B/fibre; not allow vitamins/minerals/nutrients unqualified)	M. Papa Cambridg
	(ii)	so ca grow no no	an still produce food/rice during flooding; vs as fast as water rises/eq; leed to try and control water level/eq; rest earlier; r two)	[2]
(	(iii)	suita	e that can record the data; able headings;; st be for 7 days and a minimum of one of farmer/catch/number/type/v	veight) [3]
(	(iv)	to ca so ca (any	bility/eq; alculate average/mean; atches can be compared;/to give a more complete picture; one) not allow precise/accurate)	[1]
(b)	(i)	sex; age; (do r abiot	/length;	[2]
	(ii)	in ex comp ref to	o taking samples for more than one year/eq; kactly the same way/eq; pare the catches/eq; o LEDC's/eq; r two)	[2]
(c)	(i)	A;		[1]
	(ii)	C;		[1]
(	(iii)	from valid fish o	fishing elsewhere/more people fishing; n same village; pollution; l example of pollution; disease; r two)	[2]
(d)	kills food furth not no b mar ref t	d chai her ap breed breed ny fish	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]

Syllabus Syllabus	Syll	Mark Scheme: Teachers' version	Mark Scheme: Teach	3	ge 3	Pa
0680			IGCSE – October/No		<u>.</u>	
Syllabus 0680 PARCambridge [2]			ng patrols; s/eq; tas; mesh size; e season; catch areas/eq; c;	fishing fines/ quota set m close	(i)	(e)
ed by captive breeding; more ed/eq; so few left its likely to increased price of fish; (any [2]	wo) saved/ed	rest; ref to law; (any t it; habitat cannot be	makes people aware; may l funding; more scientific inter people will keep capturing i	OR no:	(ii)	
[3]			able to fish; ie power; some silt; annual flooding; able to grow rice; o generating local jobs; v three)	some still so less a still al ref to	(i)	( <b>f</b> )
[2]		it (more quickly);	e electricity/energy (than B); expanding population; e flood control; e aid to build dam/eq; e jobs (than B); e money made by government nomy of scale; o developing more industry; r two)	for ex more more more more econd	(ii)	
[3]		ast B;	e correct working; most C; lea	some	(i)	(a)
	elled);;		-	orient axes plots		
[1]		xth year)	5/2008; (allow ref to third or six	2005/	(iii)	(
			25; × 10 = 262.5 (262/263); 262.5 (262/263);;		(iv)	(

	Page 4		Mark Scheme: Teachers' version Syllabus	
			IGCSE – October/November 2011 0680	
	(b)	(i)	Mark Scheme: Teachers' version Syllabus IGCSE – October/November 2011 0680 hot/warm/tropical; high rainfall/wet/monsoon; free standing water; (allow savanna) (any two) rapid breeding of mosquito/eq; mosquito's breed in water:	Bridge .com
		(ii)	rapid breeding of mosquito/eq; mosquito's breed in water; too much water; cannot all be drained; as needed for rice; cannot spray all the water; so not all mosquitoes can be killed; no vaccine yet; ref to cost; cannot stop mosquitoes biting humans; (any three)	[3]
	(	(iii)	make a repellent from cashew shell/gum; use of a repellent; apply at night; use of nets; keep covered (at night); ref to reducing breeding sites of mosquitoes; anti malarial drugs; (any two)	[2]
3	(a)	(i)	October/November to March;	[1]
		(ii)	any three valid jobs;; (3:2 2:1)	[2]
	(b)	(i)	any three valid questions such as income, employment, number of dependents, releve work skills ;;; layout;	vant [4]
		(ii)	allowed developments: such as sewage works; small shops/hotels/lodges/camps; sroads; paths for hiking; more jobs; other valid ideas; (max 4)	mall
			Restrictions: such as large hotels; restaurants; golf course; large roads; dumping was other valid ideas; (max 4) (I ook for suitable qualifications in both parts/'/)	tes; [8]

Restrictions: such as large hotels; restaurants; golf course; large roads; dumping was other valid ideas; (max 4) (Look for suitable qualifications in both parts/'/)