CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## MARK SCHEME for the October/November 2013 series

## 0680 ENVIRONMENTAL MANAGEMENT

0680/41

Paper 4 (Alternative to Coursework), maximum raw mark 60

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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 October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2		Mark Scheme	Syllabus	Paper			
			IGCSE – October/November 2013	0680	41			
1	(a) (i)		country can earn more foreign exchange/eq; g/reduces poverty; creates jobs;	increases sta	andard of [2]			
	(b) (i)	tes native ause food [3]						
	(ii)		nake samples representative of the fish populatio ove reliability;	n/calculate an a	average/to [1]			
	(iii)	stop	o them decomposing/rotting;		[1]			
	(iv)	all p	lots correct; axes labelled; key completed;		[3]			
	(v) pejerrey fish 350 mm (allow correct reading from a graph); and carac 132 mm;							
	(vi)		er fish have more mercury; because they keep eati store it/do not excrete it;	ng food with me	rcury; and [2]			
	<ul> <li>(c) the mercury concentration drops quickly downstream from mining; values very low/only 1 before river meets lake;</li> </ul>							
	(d) (i)	the f	frogs are already rare/it would encourage more frog o	catching/eq;	[1]			
	(ii)		the same number of fish stalls; at the same time ns; visit markets more than once; identify frog specie					
	(iii)	table	e drawn; six markets can be recorded; suitable headi	ngs;	[3]			
	(e) (i)	ΑE	D C F;;		[2]			
	(ii)	4.1;	2.0;		[1]			
	(iii)	shin	gle, young frog, number 8;		[1]			
	(iv)		ny young die/are eaten before becoming adult pened/eq;	s; breeding se	2			
	(v)		animals were evenly distributed; no significant diffen hingle;	rence in number	[1] s on sand [2]			
	(vi)		more transect lines; use more quadrats; sample all wing years; compare results over the years;	around the lake	; repeat in [3]			
	(g) (i)	•	vents extinction; can be studied in detail by scient troduced into the wild;	ists; and tourist	s; can be <b>[2]</b>			
	(ii)	mak	e catching/selling frogs illegal; inform local people at	oout their rarity/e	q; <b>[1]</b>			
					[Total: 36]			

	Page 3		8	Mark Scheme	Syllabus	Paper		
				IGCSE – October/November 2013	0680	41		
2	(a)	(i)	7;			[1]		
		(ii)	likely to select paper into paper again or iron smelted back to pure iron;					
		(iii)	less possibility of pollution; reusing materials saves resources; and energy;					
	(b)	(i)	<ul> <li>newspaper: only a small increase (0.12) when selling on to factories; still have to pay 0.15 to buy it from collectors;</li> </ul>					
		(ii)	<ul> <li>highest value waste; so exporting is profitable; do not have the industry/eq; t reprocess;</li> </ul>					
	(c) infections from hospital waste; cuts and burns get infected; harmful wastes could be poisonous; lungs damaged by fumes from fire;							
	(d)	(i)	17;			[1]		
		(ii)	8 × 0	0.80 = 6.4; 11 × 0.15 = 1.65;		[2]		
	(e) (i)		keep the city/environment cleaner/less smell/visual pollution; so more tourists want to return/eq;					
	(ii)		make money selling the wastes to factories/for export;					
	(iii)		less disease/water pollution;					
		(iv)	loss	of earnings/job/ become unemployed;		[2]		
		(v)	to si can	e clean water needed; to prevent diseases for loca top life in lake dying; pollution irrigation water; an feed extra visitors; limit number of tourists; so not to cified impact; make trails for birdwatchers so they do c;	d so crops; lives oo much sport fisl	tock/crops ning; other		

[Total: 24]