UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2006 question paper

0680 ENVIRONMENTAL MANAGEMENT

0680/01

Paper 1, maximum raw mark 60

This mark scheme is published as an aid to teachers and students, 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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

The grade thresholds for various grades are published in the report on the examination for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses.

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·	IGCSE - OCT/NOV 2006	0680	01
(a) (i)	because might be (bitten) by insect (owtte); stung; which transmits disease (or named)		[2
(ii)	apply repellant; stop insects (owtte) landing/biting		
	OR		
	take drugs (owtte); to kill disease (organisms); use of mosquito net; to stop biting/stinging		[2
(b) (i)	disease carried (by flies)/from latrine (e.g. not malaria); transferred on to food; unpleasant (or e.g. (smell); disease (or e.g.) when drinking water	any	[2
(ii)	treat water; improve latrine (vent); flushing; install sewage disposal; pipe away/in; health campaign; boil water; sink well; so water cleaner; Blair toilet		[2
(ii)	more tourists; more money; better water for locals; less illness; more jobs		[2
(a) (i)	Plate boundaries/margins (owtte)		[1
(ii)	Mainly under the sea/oceans; Atlantic; far east/Indonesia; Rift valley/East Africa; ring of fire;coastal; (A) significant absences (e.g. S America) ® just on plate boundaries again		[2
(b) (i)	Look for idea that HIGH pop leads to likely greater effect (vice Better buildings, lower effect (vv) Bigger buildings/more easily damaged/more people Urban more effect than rural (vv) Higher Richter more effect (vv) rural less good buildings (in each case an extra mark for reason if developed well/furth		e 4) [4
(ii)	food aid; sniffer dogs; medical supplies; water; better buildings; drills; food stockpile in houses; where to stand info etc.; monitoring; early warning; emergency plan		[3
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5 (a) 36;52

(b)

OR the sum of the two (88), correct nos. credited for 2, sum ignored 2 marks 52/36 for 1 mark

[2]

[4]

 (i) particles; asthma/breathing problems; acid rain; (plus one for relevant effect of acid rain); lead; brain damage in children; carbon dioxide; global warming; carbon monoxide;

effect on haemoglobin/reduce oxygen carrying

any

Exhaust component	Effect(s)	Consequence(s)	Knock on effect
Carbon dioxide	Global warming	Flooding (etc.)	Displacement/deaths/l oss of valuable land/etc.
NOX/SO ₂	Acid rain	Trees die/buildings/breathing probs/cataract/eq	Habitat loss
Particles	smog	Breathing probs	Asthma/Death/illness/l ost man/days etc.
Lead	Brain	Low IQ	Cost to state/parents
Carbon monoxide	Reduces oxygen carrying	Illness	Cost/death

(ii) use public transport;

car sharing; keep car in good order/service; catalytic converter; walk; cycle; electric car; fuel economy; diesel; unleaded; biofuels/ethanol/methane; fuel cell; car rationing; congestion charge;

any

[4]

Page 5		aae 5	Mark Scheme	Syllabus	Paper
		.900	IGCSE - OCT/NOV 2006	0680	01
6	(a)	(i)	most in southern hemisphere owtte; most in Africa; least in Australia; in tropics/eq; only in <i>northern</i> Australia; AVP		[2]
		(ii)	nomadic pastoralism		
			over grazing; soil erosion; desertification; decreased biodiversity/eq; ® habitat destruction		
			OR		
			tourism		
			vehicle use, pollution/erosion; habitat destruction for buildings (hotels etc.); pollution from people (noise/litter/sewage); bring disease to locals; trampling effects/erosion;		[3]
	(b)	(i)	improved health care; dev/e.g. ; water supply;dev; sewage treatment; agricultural revolution; more food		[2]
			® increased birth rate/decreased death rate\arguments this is cause	not reason	
		(ii)	(improve) education about family planning; empower/educate/give jobs to/eq/ <u>women</u> supply contraception; provide old age pension; incentives (radios); laws (e.g. one child); reduce need for children; method (e.g. less infant mortality due to agricultural methods etc.	/less labour inten	nsive [3]

OWTTE – or words to that effect A – Accept ® – Reject AVP – Alternative Valid Points