

International General Certificate of Secondary Education

MARK SCHEME for the June 2005 question paper

0680 ENVIRONMENTAL MANAGEMENT

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0680/02

Paper 2, maximum raw mark 80

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 initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

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*.

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Grade thresho examination.	lds for Syllal	bus 0680 (Er	nvironmental	Management)	in the June	apaCambridge.com
	maximum	mir	nimum mark re	equired for gra	ide:	a6.C
	mark available	A	С	E	F	OT
Component 2	80	60	35	18	14	

The threshold (minimum mark) for B is set halfway between those for Grades A and C. The threshold (minimum mark) for D is set halfway between those for Grades C and E. The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.

Grade A* does not exist at the level of an individual component.



June 2005

IGCSE

MARK SCHEME

MAXIMUM MARK: 80

SYLLABUS/COMPONENT: 0680/02

ENVIRONMENTAL MANAGEMENT Paper 2

 (i) Has 80,000 species of trees and flowering plants 30% of all the world's known plant species 300 tree species in a hectare of forest Any two of these (ii) Syllabus states 'genetic resource' and 'as a food base' Mention of either of these = 1 mark Some elaboration (which could overlap between them) = 2nd mark (ii) Level one contains the producers in level two are the consumers it is composed entirely of plants and trees they are the primary life on earth making direct use of light and water Two points made along these lines (ii) Difference - herbivores in level two and carnivores in level three similarity - both are consumers/both contain animal species (iii) Something taken from level one in the bottom box, and from the other two boxes in sequence upwards = 1 mark if the sequence chosen is a likely/realistic food chain = 2nd mark (iv) Reduction in size from levels one to three some attempt to relate to the great drop in size (about 80% between each level; ratio of values plotted is 1400: 280: 20) many producers/herbivores are needed to support one herbivore/carnivore, energy is lost at every level losses are due to respiration, movement etc. Most likely 1 mark for 'how' and 2 marks for 'why', but 2 and 1 is possible Keep one mark for 'how' and one for 'why', although in answers dominated by explanation it may well be that 'how they are different' can be inferred sufficiently for the 3 marks to be awarded (ii) Daily trek through the forest to seek out the scattered wild rubber trees done twice a day to make the cut first and collect the rubber later These two ideas for the 2 marks, irrespective of the form of answering. For example, a valid alternative answer may deal with work in the morning and afternoon separately (iii) The forest is left as a natural ecosystem there is nothing more is collected without any tree being destroyed the local people are in favour of the preservation of the forest for their livelihood fores	Page 1		1			k Scheme			Syllabu	·A.
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Three points made along these lines. [3]	(1	(ii)	there is only a w the loca	nothing mo vild product al people are	re than a trac is collected v in favour of	ck through without an the prese	iy tree bein ervation of t	ig destroy the forest	yed t for their li	velihood
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	age	2			cheme		Syllabu	·A
				IGCSE – J	UNE 2005		0680	Day
	(iii)	Various	s approaches	s to answering	are possible. S	ome sugge	stions are:	annb.
d)	clea	- na tha - pri - dia siz - ho fro - de Tw reductio rances	tural product an traders and ces of primar agram sugges ced area in or use in the mi om markets for velopment of vo problems i on in amount remained rel	is tend to be d manufacture ry products fluc sts that the tap rder to make a iddle of natura or the rubber f alternatives lif n line with the of forest clear atively low/beg	ctuate up and do oper needs to vi	ollectors an own accordi sit a fair nu uggests tha ber takes av ide above 6-7 osequent ye	at it is going way the ma ears until 20	s makes les market prices es over a fair to be remote rket [2]
	are	include	d (e.g. 17,00	00 sq km redu	e expected for 3 uction from 1990 environmentalist	6-7 and 7,0)00 sq km i	ncrease from
	With	out val	ues quoted, t	the maximum 2	2 marks			[3]
e)	alm this	ost half is even	the area is stated after 16% of	till rainforest in it has been cl	red by rainforest what is the wor eared rainforest in Bra	ld's 5th larg	jest country	
			= 1 mark well used to	support the ar	nswer = 2 marks	;		[2]
(f)	Link Valu	ed by a ies plot		ˈk (mainly) = 1 m	nark radient = 1 mark	K		
		-	method is us te plotting of	,	the maximum i	s 2 marks f	for use of a	regular scale [4]
(g)	(i)	Econor	mic problem -	– Brazil's mass	sive debts = 1 m	ark		
		(Also a	ccept rural p	overty from the	e social part of th	ne report)		
	(ii)	great o earning	verseas marl g income fron	ket opportuniti n overseas will	d can be exporte es exist e.g. in E l cut the size of t uses of money e	Europe the foreign	debts	
		Two po	pints made al	ong these line	s for the remaini	ing 2 marks	;	[3]

			2
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(iv) Most land in Brazil is held in large estates/most farmers are landless with lite of land reform

Cambridge.com the only chance for peasant farmers in Brazil to own land is in the cleared areas I Amazon

made more urgent by the great population pressure from large families

Points made along these lines for the remaining 2 marks

[3]

(v) Brazil is a developing country with a large population; if areas of productive and settled land are extended in to the rainforest zone, more of the country could be used productively. This could reduce problems and allow economic development. This sounds like the view of a Brazilian, who can argue that there is still a lot of rainforest left despite clearances

The Earth's biodiversity suffers when large areas of rainforest are removed - with dangers for future generations. The forests maintain oxygen levels in the atmosphere, to the benefit of humans everywhere. This sounds like the view of an environmentalist and other advantages of preserving the rainforest could be added by candidates. However, the fact that a mature forest is oxygen neutral could be used as a counter to the environmentalist arguments

- One view examined or two looked at in limited detail; unsure decision = 1 or 2 marks
- Both views examined; if a view is expressed, it is weakly supported Or one view examined and supported perhaps over-zealously almost to the exclusion of the other = 3 or 4 marks
- Both views examined and supported, even if not in a total balanced way. Good explanation supports the clearly expressed decision = 5 marks [5]

[Total: 40 marks]

2	(a)	(i)	Oil, coal, natural gas, nuclear energy, hydro-electricity	[1]
		(ii)	From over 6,000/6,300 - 6,500 million tonnes to almost 9,000/8,700 or 8,800 million tonnes an increase of about 2,300/2,400 m tonnes (depending on values used)	
			At least two acceptable values quoted	[2]
		(iii)	A five year period chosen from between 1983 and 1990	
			(Allow it to be stated as six years e.g. 1983 - 88)	[1]
		(iv)	Increase in total world population general world increase in wealth/income levels particular increases in prosperity and energy use in the USA growth in traffic/transport great increase in use of electricity/electrical goods in homes growth in manufacturing industry much economic growth in some developing countries (e.g. in the Far East) improved/increased technology	
			Most answers are likely to come from this list 3 @ 1 mark	[3]

[3]

Pa	age 4	4 Mark Scheme Syllabu	2
		IGCSE – JUNE 2005 0680	Pac
(. ,	The three largest energy sources are fossil fuels the non-fossil fuels of nuclear and hydro contribute only 1,000 m tonnes out of a total of 9,000 m tonnes this is only about 10% clear understanding that oil, natural gas and coal are the fossil fuels	oanacampr. [3]
		3 @ 1mark	[3]
b) ((i)	5 times longer	[1]
(amount of mineral that has been discovered/is known to exist not yet worked or used but it can be in the future	
		2 @ 1 for these two elements, however expressed	[2]
((iii)	Reserves (1420) divided by production (35.5) = 40	[1]
((iv)	25%	[1]
(. ,	Mining coal and bringing it to the surface is expensive; sending men und dangerous, and there are many underground problems mining coal. Wh drilled from the surface mostly using machines	•
		Using coal - coal is a solid and needs to be lifted to be used and is bulky, is a liquid and can be pumped through pipes. The amount used can be easily. Also oil can be used for more purposes, especially for means of tra	e controlled
		Environmental concerns - coal burns with more waste than oil and contri to air pollution. For example, coal fired power stations are major con emissions of greenhouse gases and to the formation of acid rain, espe- grade coal is used	tributors to
		Points made along these lines Reward positive comments about both coal and oil Reserve one mark for each heading	[6]
(c) (Suitable symbol chosen ratio of 1:5 shown	
		2 @ 1 mark	[2]
(• •	Developed countries with many fewer people consume more energy than	developing
		countries developed countries are shown to be richer and can afford to consume mor use of values to illustrate these basic points	re [2]
((iii)	Most of the proved oil reserves are located in developing countries	rico

(iii) Most of the proved oil reserves are located in developing countries developed countries will need to rely upon importing from developing countries this means they do not control the oil production and oil is the main fuel used values used to support this point

Credit use of knowledge to support points made e.g. most oil reserves are in the Middle East, which at the moment is a politically unstable area developing countries might want to use more of the oil themselves however, developed countries have more money with which to buy from developing countries

Page 5		Mark Scheme	Syllabu	
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(d) (i)		e the use of energy so that the life expectancy uels) can be increased	of existing sources	in la
	Likely 2	mark, but if particularly well stated, it could be wo	orth 2 marks	'9e.
(ii)	Method	ls named in syllabus:		10
	increas	ed efficiency in use		

increased efficiency in use insulation power from waste new technology

Also allow conservation of use by use of public transport/car sharing/biking 2 methods named = 1 mark Use up the remaining marks for description of methods

[4]

- (iii) Possible headings for the disadvantages:
 - Α Cost
 - Great cost of research, development and putting into use untried technology
 - High costs of using these compared with already existing energy sources
 - Cost is a particular issue for developing countries
 - How viable are new/alternative sources?
 - В Availability
 - Weather cannot be relied upon for solar, wind power etc.
 - Best conditions are not necessarily available everywhere e.g. HEP requires specific conditions
 - It will be difficult to increase the amount produced to match amount supplied by fossil fuels

*Narrow answer, based on one item e.g. one alternative energy source = 1 or 2 marks *Broader answer examining a range of relevant points = 3 or 4 marks *As above and supported by illustrative examples and specific information = 5 marks [5]

(iv) No mark for the choice, but reward supporting content. The better the choice, the more opportunities for comment and gaining access to all the marks.

Examples

- 1 Solar
 - photo-voltaic panels are already in use in both developed and developing countries
 - they can be used in many different ways e.g. for electric lights, hot water etc.
 - once the cost of manufacture comes down, more can be bought in developing countries, many of which are located in tropical latitudes, where sunlight is stronger
 - sunlight is an inexhaustible natural resource
- 2 Wind
 - many turbines already in use/known technology
 - turbines are becoming larger and more efficient/improved technology
 - many different sites for them offshore and on the land
 - opportunities exist for use in many countries/many different parts of the world
 - wind is an inexhaustible natural resource

Three points made along these lines for chosen energy source

[3]