

Mark Scheme (Standardisation) Summer 2008

GCE

GCE Geography B (6475/01)



General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.
- The following is indicative content only. Please remember there are other possible valid responses.

Option 5.1 Environments and resources

Q1 'The current use of energy resources may be seen as a global crisis'. Assess this statement.

Generalisation 3 Resource management and sustainability

- The focus of the Option is: What are the questions for the future of resource use and management? Can resource use be effectively managed?
- Investigating The current use of energy/mineral resources in MEDCs & LEDCs may be seen as a global crisis with an imbalance of resource availability v. demand; however rates of exhaustion can be reassessed. The nature of the crisis may vary, depending upon whether it is seen from MEDC or LEDC perspectives
- By examining a range of energy case studies for example the use of fossil fuels/renewables/conservation strategies in UK, China, from MEDCs to LEDCs. Differences in MEDC/NIC/LEDC approaches of management should feature. Consensus is that the original energy gap feared by MEDCs is being amplified by demands from especially India & China. NB MANY DIFFERENT APPROACHES TO THIS QUESTION ARE POSSIBLE- BE OPEN IN ASSESSMENT!
- Background: 80% world's population = LEDCs: consume 30% of global energy supply. The rate of energy consumption in LEDCs is rising rapidly due to industrial expansion and population growth especially in NICs/RICs. Much energy is sourced from fuelwood + less use of electricity. Management = increasing fossil fuel use to micro hydro projects huge range according to location. Not a current crisis but soon to be. 20% of the world's population = MEDCs: consume 70% of the energy supply. The rate of energy consumption in MEDCs is slowly falling due to industrial decline and environmental concerns. National policies often long standing. Demand for electricity dominant. Management = finding more traditional resources / some investment in alternatives eg renewables/increasing efficiency + conservation. Crisis has been delayed by management so far eg UK Energy White Paper 2003 low carbon policy.

Better candidates will challenge the statement, possibly showing local anomalies like Curitiba. They will choose a range of scales as well as MEDC/NIC/LEDC split. They may highlight growing demands of RICs eg China, India. They may introduce a time element and look at areas that have witnessed change in resource use and have policies that are more sustainable. Conservation strategies may feature.

are more sustainable. Conservation strategies may feature.			
D	Discussion of title		
Introducing, defining and	Definitions of		
describing the question,	• Energy resource(finite, renewable)		
problem or issue, and	Current usage of energy- by whom?		
identifying the	• Global energy crisis = great shortfall/ price <u>rise</u> in the supply of energy resources		
data/information required	to an economy, especially for oil & electricity		
to answer it	MEDC LEDC/NIC		
	Who sees it as a crisis- pressure groups? Governments? individuals?		
	Justification of case study selection by scale, time, location		
R	A balanced range of case studies by scale, location and possibly over time, showing		
Researching relevant	detailed knowledge		
sources, selecting	MEDC/LEDC/NIC locations should feature and be contrasted.		
appropriate case study			
material and using this			
knowledge in detail			
U	Understanding of the key ideas		
Understanding of general	• How over use of finite reserves and lack of investment in renewables has led to		
concepts, case studies,	impending gap between production and demand		
attitudes and values, and	 The 'hidden energy crisis' of LEDC + global energy crisis in MEDCs 		
the application of data and	• Reassessment of resource reserves-new technologies & discoveries, demand &		
information to the question,	pricing policies & management strategies.		
problem or issue	 Increasing sustainability policies: the 4Rs 		
С	• Should include a meaningful assessment of the title-complexity of energy crisis		
Drawing appropriate	 Look for ongoing evaluations during essay 		
conclusions on the basis of	 Should return to main case studies developed in the essay 		
evidence, and on going	• Credit those who go beyond simplistic assertive viewpoint that there is an energy		
evaluation	crisis		
Q	As per generic mark scheme		
Quality of written	Specialist geographical terminology such as resource, recyclable, renewable		
communication, including			
the communication of			
knowledge, ideas and			
conclusions in a clear and			
logical order, and the use of			
appropriate vocabulary			

Option 5.1 Environments and resources

Q2 To what extent can sustainable resource management at a local level help reduce global demands for resources?

Generalisation 3 Resource management and sustainability

The focus of the Option is: What are the questions for the future of resource use and management? Can resource use be effectively managed?

- Investigating The rise in global demands from MEDCs in last century and NICs/RICs in 21stC and how management policies re applied if any! The title reflects the 1994 Earth Summit's Local Agenda 21 objective
- By examining a range of mineral/ energy case studies for example the UK, China,from MEDCs to LEDCs. Differences in MEDC/NIC/LEDC approaches of management should feature. Should have at least one energy and one mineral resource, but may get a range within adequate to answer question.

Better candidates will choose a range of scales as well as MEDC/NIC/LEDC split. May highlight growing demands of RICs eg China, India. They may introduce a time element and look at areas that have witnessed change in resource use and have policies that are more sustainable now. Conservation/Efficiency strategies may feature, eg the 4Rs. They may highlight need for national & international policies rather than just local initiatives.

They may highlight need for national & international policies rather than just local initiatives.			
D	Discussion of title		
Introducing, defining and	Definitions of		
describing the question,	Sustainable Resource management - Brundtland principle		
problem or issue, and	Resource demands		
identifying the	Global demands.		
data/information required	Local scale/level- eg city, state, area, country		
to answer it	 Possibly identify the source of the title: Earth summit 1992 Local Agenda 21 		
	Justification of case study selection from MEDCs and NICs/LEDCs perhaps		
	categorised by scale(global-local) or over time		
R	A balanced range of case studies by scale, location, type of economic development		
Researching relevant	and possibly over time.		
sources, selecting	Detailed knowledge of either several mineral or several energy resource or		
appropriate case study	preferably a combination of mineral and energy.		
material and using this	prototably a combination of minoral and onergy.		
knowledge in detail			
U	Understanding of the key ideas		
Understanding of general	• Global energy or mineral stock, including case studies at national & small scale eg		
concepts, case studies,	'hidden energy crisis' of LEDC v. global energy crisis in MEDCs or demand for steel		
attitudes and values, and	versus iron ore/other mineral reserves		
the application of data and	• Reassessment of resource reserves - new technologies & discoveries, demand &		
information to the question,	pricing policies & management strategies.		
problem or issue	• Investigating the concepts of waste as a resource. Investigating the 4 Rs:		
	recycling, repair, re use, product redesign		
С	Should include a meaningful assessment of the title		
Drawing appropriate	Should return to main case studies developed in the essay		
conclusions on the basis of	Look for ongoing evaluations during essay		
evidence, and on going			
evaluation			
Q	As per generic mark scheme		
Quality of written	Specialist geographical terminology such as resource, stock, flow, recyclable,		
communication, including	renewable, Brundtland Principle		
the communication of			
knowledge, ideas and			
conclusions in a clear and			
logical order, and the use of			
appropriate vocabulary			

Option 5.2 Living with hazardous environments

Q3 'Economic status is overemphasised as the main reason for variations in the severity of natural hazard impacts.' What evidence is there to support this view?

The focus of this question is What are the impacts of natural hazards upon people, the economy and the environment? How and why do these vary spatially?

Guidance

Investigating & assessing the impact of a

- Range of natural hazards at a range of scales in both MEDCs & LEDCs
- Multiple hazards in a country or region
- Hazards in MEDCs, LEDCs

Generalisation 2

Spatial variations in the impact of natural hazards. Impacts include social, economic & environmental effects. Impact is related to Type, frequency magnitude &spatial distribution of the natural hazard The nature of the area affected,

including its economic status.

A main focus of this question is to show the complexity in factors affecting impacts- and to avoid the simplistic MEDC/LEDC economic development split so often seen in answers.

By examining a range of case studies from countries of varying economic status, tectonic and climatic and possibly geomorphic hazards in differing economic groupings, and showing the role of other factors: magnitude, frequency, perception, management, response etc. in reducing negative impacts from hazards.

Better candidates will not restrict themselves to one hazard type or a straight MEDC/LEDC split. They will choose anomalies to help support argument eg Kobe/New Orleans + Katrina - large impact yet MEDC, or Pinatubo - less impact yet an LEDC. Tsunami or 2004. They may consider media coverage and who is overstating the view..... Credit those who agree there is plenty of evidence for other factors-magnitude, politics, type

D
Introducing, defining and describing the question, problem or issue, and identifying the data/information required to answer it

Discussion of title Definitions of

- Natural hazard (and secondary hazard may be attempted eg tsunami, fire)
- \bullet economic wealth/status possibly World Bank income groupings rather than MEDC/LEDC
- variations in severity of impacts-economic, social, environmental.

Justification of case study selection for example by type of hazard, or type of impact or economic development

R
Researching relevant
sources, selecting
appropriate case study
material and using this
knowledge in detail

A balanced range of case studies with knowledge of specifics/depth & range of selected & appropriate case studies which might include

- the floods of the Mississippi and Boscastle, Galtur avalanches and Aberfan landslide, earthquakes of Kobe, and Bam, 2005 Asian earthquake, volcanoes of Mt St Helens and Pinatubo, the 2004 Asian Tsunami, Hurricanes Katrina, Wilma, Andrew, Mitch ...
- Newer, topical or less standard case studies (eg Burma Nargis, China Sichuan) showing obvious personal research should be rewarded

U

Understanding of general concepts, case studies, attitudes and values, and the application of data and information to the question, problem or issue

Understanding of the key ideas

- Complex inter-linkage of factors
- Different types of impact
- Role of time scale, possibly using Parks model

С

Drawing appropriate conclusions on the basis of evidence, and on going evaluation

- Should include a meaningful assessment of the title
- Should return to main case studies developed in the essay
- Look for ongoing evaluations during essay
- Credit those who go beyond simplistic assertive viewpoint that development dominates impact.

 \cap

Quality of written communication, including the communication of knowledge, ideas and conclusions in a clear and logical order, and the use of appropriate vocabulary

As per generic mark scheme

Specialist geographical terminology (depending on type of hazards chosen) such as vulnerability, quasi natural, tectonic, global warming, mass movement, hazard salience, techno centric, richter scale, mercalli scale...

Option 5.2 Living with hazardous environments

Q4 How far is it true to say that the impact of <u>either</u> climatic <u>or</u> tectonic hazards is determined by local factors?

The focus of this question is What are the impacts of natural hazards upon people, the economy and the environment? How and why do these vary spatially?

Guidance

Investigating & assessing the impact of a

- Range of natural hazards at a range of scales in both MEDCs &LEDCs
- Multiple hazards in a country or region
- Hazards in MEDCs, LEDCs

Generalisation 2

Spatial variations in the impact of natural hazards. Impacts include social, economic & environmental effects. Impact is related to type, frequency magnitude & spatial distribution of the natural hazard.

The nature of the area affected, including its economic status.

The essay is concerned with weighing up the factors influencing hazards at different spatial scales and locations. There is a restriction on the type of hazard - 'tectonic' = earthquakes, volcanoes and tsunami should be covered. Climatic = climate, weather, floods.

By examining a range of case studies from MEDCs /NICs /LEDCs, incorporating different groups of people and hazard types, candidates should explore the title. A decision is needed by the end of the essay as to the role of local factors.

Better candidates may identify: factors other than local geography (eg time of day, type of eruption/event, building construction, local perception and salience). Wider scale factors include patterns of frequency and magnitude national economic development, perception, technology. They may use Parks model of impact. They may consider long, short term, direct, indirect.

D Introducing, defining and describing the question, problem or issue, and identifying the data/information required to answer it

Discussion of title

Definitions of

- Hazard (+ possibly secondary)
- the term local factor as opposed to external/larger scale
- local factors can be physical (eg time of day, type of eruption/event, building construction, local perception and salience, magnitude, frequency, local topography, geological characteristics) and human (poverty, vulnerability, accessibility, local governance & response, politics, technology and infrastructure) (Dreggs model useful here)
- impacts social, economic, environmental, long, short term

Justification of case study selection for example by type of hazard, or type of impact or economic development

R Researching relevant sources, selecting appropriate case study material and using this knowledge in detail

A balanced range of case studies with knowledge of specifics/depth of selected & appropriate case studies, which might include

- The traditional approach using for hazards: the earthquakes of Kobe, and Bam, 2005 Asian; volcanoes of Mt St Helens and Pinatubo, the 2004 Asian Tsunami
- Newer, topical or less standard case studies (eg Burma Nargis, China Sichuan) showing obvious personal research should be rewarded
- Structure may be by impact generated rather than type of hazard/incident

U

Understanding of general concepts, case studies, attitudes and values, and the application of data and information to the question, problem or issue

Understanding of the key ideas

- Complex relationship between factors
- Local factors may dominate eg impact of Mitch on Nicaragua, floods in Bangladesh, Kobe older building, New Orleans black population
- More wide scale factors of economic status, government aid, use of technology etc may either increase or decrease impacts

С

Drawing appropriate conclusions on the basis of evidence, and on going evaluation

- Should include a meaningful assessment of the title
- Should return to main case studies developed in the essay
- Look for ongoing evaluations during essay
- Credit those who go beyond simplistic assertive viewpoint that local factors dominate

Q

Quality of written communication, including the communication of knowledge, ideas and conclusions in a clear and logical order, and the use of appropriate vocabulary

As per generic mark scheme

Specialist geographical terminology eg quasi natural ,vulnerability, prediction and secondary hazards plus specialist vocabulary depending on hazard type chosen such as for tectonic: Mercalli, Richter scales

Option 5.3 The pollution of natural environments

Q5 'The management of point source pollution has had much more success than that of diffuse pollution.' What evidence is there to support this view?

The focus of the Option is How can pollution issues & incidents be managed? By whom should they be managed?

Guidance

- Identifying different groups who cause pollution (eg water companies, agriculturalists, car drivers, consumers) & their attitudes towards pollution
- Monitoring & managing pollution & its effects (local/national governments) pressure groups for change (eg Friends of the Earth, Greenpeace)
- Investigating incidents which have/have not been successfully managed; assessing the impact of the different groups involved in achieving this

Generalisation 3

Different strategies exist for tackling & managing pollution incidents, eg national or international legislation, prevention, control, education, treatment. Whichever strategies are adopted usually reflect the attitudes & values of different groups towards pollution incidents

The essay is concerned with whether management of point incidents like oil spills and chemical explosions, and diffuse sources such as enhanced greenhouse effect or toxic build ups in river/marine environments has been more effective. There is no consensus view as to whether the statement is entirely accurate - it will depend on which pollution types/egs are chosen to compare.

It seems that incidental oil spills at sea and chemical explosions are less evident and no more Chernobyls so far - but witness Harbin, Buncefield and the 2006 Lebanese war oil spillages. To counter the argument, on a longer term internationally, there are management initiatives eg global warming is more discussed. However Kyoto is to be far from effective. There has been success in controlling diffuse acid rain and ozone depletion however- at least in MEDCs. The recent rise of polluting superpowers like China will cast doubt on the statement from both sides! On a more local scale, great improvements in air and water quality have been seen in Western Europe especially since the 1960s.Individual cities /areas may be quoted for local initiatives eg Sheffield, Southampton or Curitiba

By examining a range of types of point or diffuse pollution, and strategies relating to them eg

Agenda 21 and Millennium Development Goals (Goal 7: Ensure environmental sustainability Target 9: Include the principles of sustainable development in policies and reverse the loss of environmental resources); CO2 and global warming - UN IPCC, 1997 Kyoto Protocol, G8 Gleneagles 2005; Ozone depletion - 1987 Montreal Protocol; Acid rain -1985 Sulphur Protocol, 1999 Gothenburg Protocol; Marine: MARPOL - from International Maritime Organisation, double hulls, North Sea Conferences; Toxic waste - 1989 Basel Convention; POPs- Agenda 21; Water - EU Water Framework Directive; Agriculture - Green Revolution. In W Europe Stewardship schemes...

The usual case studies of incidents eg Bhopal, Chernobyl, Exxon Valdez, Sandoz, or newer ones of Buncefield and Harbin should be related to management strategy.

Better candidates will look at a range of incidents and longer term events and evaluate whether policies have been successful/unsuccessful. They may look at regional/transboundary agreements and may go beyond international agreements and consider successful local initiatives eg in Curitiba, They may distinguish between sources and whether the pollution is accidental or operational. Simple models may be used eg based on the UK Environmental Agency model of pollution prevention, or the source-pathway sink concept. An attempt at traditional and alternative strategies may be made with reference to the concept of sustainability. The role of pressure groups may be considered.

D Introducing, defining and describing the question, problem or issue, and identifying the data/information required to answer it

Discussion of title

Definitions of

- Atmospheric/terrestrial/water types + longer term (diffuse) and incidents (usually point) pollution.
- Successful Management types, decision makers
- Success ie eliminating/reducing pollution
- Point and diffuse pollution types

Justification of case study selection for example by type of pollution, or type of management or economic development of countries

Researching relevant sources, selecting appropriate case study material and using this knowledge in detail

A balanced range of case studies with knowledge of specifics/depth & range of selected & appropriate case studies which might include

- Traditional case studies: Exxon Valdez, Bhopal, Chernobyl, Montreal and Kyoto Protocols, North Sea.
- Credit obvious personal & topical research eg on latest international efforts on global warming & post Kyoto (Bali road map, Cool Climate 50 Hokkaido) or latest stewardship schemes in European agriculture.

U

Understanding of general concepts, case studies, attitudes and values, and the application of data and information to the question, problem or issue

Understanding of the key ideas

- Types of pollution-incident and long term
- Traditional and alternative forms of management
- What successful management is
- Role of pressure groups eg Greenpeace

С

Drawing appropriate conclusions on the basis of evidence, and on going evaluation

- Should include a meaningful assessment of the title
- Should return to main case studies developed in the essay
- Look for ongoing evaluations during essay
- Credit those who go beyond simplistic assertive viewpoint that incident pollution is successfully controlled, longer term type is not.

Q

Quality of written communication, including the communication of knowledge, ideas and conclusions in a clear and logical order, and the use of appropriate vocabulary

As per generic mark scheme

Specialist geographical terminology such as diffuse, point, incidents, GDP/GNP/GNI... proximity, precautionary, polluter pays principles

Ontion 5.3 The not	lution of natural envi	ronments		
		strategies used to manage pollut	tion at both source and sink?	
The focus of the	Guidance	J	Generalisation 3	
Option is How can pollution issues & incidents be	• Identifying different	t groups who cause pollution (eg culturalists, car drivers, consumers) ds pollution	Different strategies exist for tackling & managing pollution incidents, eg national or international legislation, prevention, control,	
managed? By whom should	• Monitoring & mai	naging pollution & its effects ments) pressure groups for change	education, treatment. Whichever strategies are adopted usually	
they be managed?	(eg Friends of the Earth		reflect the attitudes & values of different groups towards pollution incidents	
	successfully managed; a groups involved in achie	assessing the impact of the different eving this		
The essay is concerned various groups of pedattitudes to pollution.	ple who are responsibl	naging pollution incidents and places e for managing (including preventin	, and attempts to get candidates to identify the g) pollution incidents and the impact on their	
Planners - Internation deliberate i.e. ongoing	nal Government - UN, g - causes of the polluti	on incidents e.g. industry, oil tanker	policy and legislation; Polluters - accidental/spills, agriculture, individual actions; Individual 4Rs; Emergency services - from Environmental	
Agencies to oil spill sp	ecialist companies; Acad	lemics - researchers, scientists, educa		
Protocol. CO2 and glo	bal warming - UN IPCC,	1997 Kyoto Protocol, G8 Gleneagles 2	rain - 1985 Sulphur Protocol, 1999 Gothenburg 2005 Kyoto carbon trading, effluent/toxic waste Maritime Organisation, North Sea Conferences	
• or sink eg Kyoto seq	uestration, acid rain lim		North Sea (international), Exxon Valdez (local),	
Better candidates will They will evaluate the	ne strategies used: eg i	ge of scales/locations and link these for nuclear waste, global warming,	specifically to attitudes of the group involved. POPs, refuse An attempt at traditional and Local Agenda 21 from 1992 Earth Summit	
D Introducing, defining	<u> </u>	Discussion of title	and sink, of strategies, decision makers,	
question, problem o		interested parties-pressure groups, attitudes and values		
, , ,	information required/		ion to show that not just local initiatives are	
to answer it			ents as pollution becomes ever increasingly e) The essay may also be structured by using atmosphere/terrestrial/water	
R Pesearching relevan	t sources selecting	A balanced range of case studies	with knowledge of specifics/depth & range of	
Researching relevant sources, selecting appropriate case study material and using this knowledge in detail		selected & appropriate case studies which might include • Traditional case studies: Kyoto, Montreal, North Sea, but with anomalies such as Curitiba and successful local recycling initiatives eg Project Integra of		
			arming, individual efforts by eg California or e gas emissions may be contrasted with the	
		Bush administration policy on KyotCredit obvious personal & top	o. i <mark>ical research</mark> eg on global warming & post	
		Kyoto (Bali road map, Cool Climatin European agriculture linked to	e 50 Hokkaido) or latest stewardship schemes reduced water pollution. Credit reference to lillennium Development Goals, Gleneagles	
U Understanding of ge	neral concents case	Understanding of the key ideas	n at source or cloop up at sink scales of	
studies, attitudes an application of data a	nd values, and the and information to	• Different strategies: prevention at source or clean up at sink, scales of pollution management: global to local and how these help achieve the goal of sustainable development.		
the question, proble	em or issue		tion (more for sink?) may differ from a green uthority (more for source?). Individuals may	
		• Change over time from sink to public pressure and international e	o source strategies facilitated by increasing efforts	
C Drawing appropriate conclusions on the basis of evidence, and on going		Should include a meaningful asse Should return to main case studie		
		Should return to main case studies developed in the essayLook for ongoing evaluations during essay		
evaluation			implistic assertive viewpoint that there the	
Q		As per generic mark scheme		
Quality of written co including the commu knowledge, ideas an clear and logical ord	unication of d conclusions in a		logy such as source, sink, diffuse, point, ty, precautionary, polluter pays principles	
appropriate vocabulary				

Option 5.4 Wilderness environments

Q7 How and why does economic development continue to conflict with protection in wilderness areas?

Generalisation 3 Managing conflict in wilderness areas

The conflict between economic development (eg mineral development, tourism) and conservation may not be reconcilable. Some pressures can be more easily managed (eg eco tourism) than others in maintaining wilderness quality.

Key Questions How & why might protection constrain or conflict with economic development? How can such pressures be managed? By whom & with what effects?

Guidance: investigating strategies used to protect wilderness areas at different scales (eg globally - World Heritage Coasts, nationally - national parks) by whom are they introduced, with what purpose & with what effects. Identifying wilderness areas whose environments have been less successfully managed & assessing reasons for this (eg tourist pressure Himalayas). Identifying strategies which might be introduced to resolve conflicting demands (eg ecotourism) & assessing the effectiveness of such strategies

The essay is concerned with the ways in which and reasons for the basic conflict between conservation and development

By examining a range of case studies: showing conflicts between the physical and cultural (if indigenous people are involved) environment and development. Both the ways in which conflicts are manifested (ecosystem/social stress, and loss) and the reasons why (over riding need for development, lack of effective management) should be covered. They should consider the element of time ie the aspect of 'continue' in conflicts despite protection.

Better candidates may use different scales, and that some wildernesses do not have a major conflict because of effective management. They may consider the part played by different groups of people - inside and outside a wilderness area. They may include indigenous people as landscape 'stewards'. They may contrast wildernesses in MEDCs and LEDCs/NICs. They will reinforce the time element, and show the increasing global significance placed on wilderness areas as in the 20^{th} C + 21^{st} C.

D Introducing, defining and describing the question, problem or issue, and identifying the data/information required to answer it

Discussion of title

Definitions of wilderness areas, protection measures, economic development, conflict Justification of case study selection to show a range of types of conflict and types of protection - possibly the wilderness continuum model

Alternatively justification may be by scale or preferably reason for development (resource exploitation, tourism)

R Researching relevant sources, selecting appropriate case study material and using this knowledge in detail

A balanced range of case studies with knowledge of specifics/depth & range of selected & appropriate case studies which might include

- Antarctica as the largest wilderness with unique international moratorium on development and a management strategy which although not easy to originally set up has lasted so far and stopped large scale economic development (some ecotourism)
- Kakadu, active involvement of indigenous people as 'stewards' + MEDC status so less conflicts
- Alaska, not easy to manage because of increasing pressures for minerals, and a variety of conservation areas like Denali.

U

Understanding of general concepts, case studies, attitudes and values, and the application of data and information to the question, problem or issue

Understanding of the key ideas

- Concept of wilderness management options
- · Types of conflicts
- Need for economic development especially in poorer countries
- Some wildernesses may need human exclusion(Antarctica, Korup core zone)

C Drawing appropriate conclusions on the basis of evidence, and on going evaluation

- Should include a meaningful assessment of the title
- Should return to main case studies developed in the essay
- Look for ongoing evaluations during essay
- Credit those who go beyond simplistic viewpoint that wilderness protection always conflicts with economic development

0

Quality of written communication, including the communication of knowledge, ideas and conclusions in a clear and logical order, and the use of appropriate vocabulary

As per generic mark scheme

Specialist geographical terminology such as fragility, wilderness continuum, carrying capacity, core-buffer zoning, Biosphere reserves....

Option 5.4 Wilderness environments

of appropriate vocabulary

Q8 'Managers find it difficult to reconcile the conflicting demands made on wilderness areas.' Assess this statement.

Generalisation 3 Managing conflict in wilderness areas

The conflict between economic development (eg mineral development, tourism) and conservation may not be reconcilable. Some pressures can be more easily managed (eg eco tourism) than others in maintaining wilderness quality.

Key Questions How & why might protection constrain or conflict with economic development? How can such pressures be managed? By whom & with what effects?

Guidance: investigating strategies used to protect wilderness areas at different scales (eg globally - World Heritage Coasts, nationally - national parks) by whom are they introduced, with what purpose & with what effects. Identifying wilderness areas whose environments have been less successfully managed & assessing reasons for this (eg tourist pressure Himalayas). Identifying strategies which might be introduced to resolve conflicting demands (eg ecotourism) & assessing the effectiveness of such strategies

The essay is concerned with the effectiveness of a range of strategies designed to manage wilderness areas coping with a variety of demands, and their long term success/sustainability

By examining a range of case studies: either by scale, location or effectiveness.

Better candidates may use different scales, and consider why different groups of people - inside and outside a wilderness area think it worthy of protection. They may include indigenous people as landscape 'stewards'. They may contrast wildernesses in MEDCs and LEDCs / NICs. They may introduce a time element, and show the increasing global significance placed on wilderness areas as in the 20^{th} C $+21^{st}$ C. They will examine the term reconciliation and relate it to compromises

reconciliation and relate it to compromises			
D	Discussion of title		
Introducing, defining and describing the question, problem or issue, and identifying the	Definitions of wilderness, conflicting demands, different types of managers/decision makers, (government, NGOs, individuals) strategies - international/local. Reconcile = ? for what/whom? Justification of case study selection to show a range of wildernesses by effectiveness		
data/information required to answer it	of strategy/scale, type of demand/ economic development		
R Researching relevant	A balanced range of case studies with knowledge of specifics/depth & range of selected & appropriate case studies which might include		
sources, selecting	Antarctica as the largest wilderness with unique international moratorium on		
appropriate case study material and using this	development and a management strategy which although not easy to originally set up has lasted so far to safeguard fragility		
knowledge in detail	• Kakadu, active involvement of indigenous people + MEDC status so financial stability, seen as relatively successful		
	• Alaska, not easy to manage because of increasing pressures for minerals, and a variety of conservation areas like Denali.		
	Ngorongoro Conservation Area, Tanzania seen as relatively unsuccessful		
U	Understanding of the key ideas		
Understanding of general	Concept of wilderness and demands on them		
concepts, case studies, attitudes and values, and	Need for increasing protection as human influences/footprints extend globally		
the application of data	Strategies may be short/long term. Local/National/international		
and information to the	Reconciliation - may mean compromise		
question, problem or issue	International down to local		
C	Should include a meaningful assessment of the title		
Drawing appropriate	Should return to main case studies developed in the essay		
conclusions on the basis of	Look for ongoing evaluations during essay		
evidence, and on going	• Credit those who go beyond simplistic viewpoint strategies are reconciled/not		
evaluation	reconciled		
Q	As per generic mark scheme		
Quality of written communication, including the communication of	Specialist geographical terminology such as fragility, wilderness continuum, carrying capacity, core-buffer zoning, Biosphere reserves		
knowledge, ideas and			
conclusions in a clear and			
logical order, and the use			