

# INTERNATIONAL A-LEVEL GEOGRAPHY

(9635) Mark scheme

Unit 3: Physical geography 2

Specimen 2018

Mark schemes are prepared by the lead assessment writer and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students' responses to questions and that every associate understands and applies it in the same correct way. As preparation for standardisation each associate analyses a number of students' scripts. Alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, associates encounter unusual answers which have not been raised they are required to refer these to the lead assessment writer.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of students' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

# International A-level Geography mark scheme

#### How to mark

#### **Aims**

When you are marking your allocation of scripts your main aims should be to:

- · recognise and identify the achievements of students
- place students in the appropriate mark band and in the appropriate part of that mark band (high, low, middle) for each Assessment Objective
- record your judgements with brief notes, annotations and comments that are relevant to the mark scheme and make it clear to other examiners how you have arrived at the numerical mark awarded for each Assessment Objective
- ensure comparability of assessment for all students, regardless of question or examiner.

## **Approach**

It is important to be **open-minded** and **positive** when marking scripts.

The specification recognises the variety of experiences and knowledge that students will have. It encourages them to study geography in a way that is relevant to them. The questions have been designed to give them opportunities to discuss what they have found out about geography. It is important to assess the quality of **what the student offers**.

Do not mark scripts based on the answer **you** would have written. The mark schemes have been composed to assess **quality of response** and not to identify expected items of knowledge.

## **Assessment Objectives**

This component requires students to:

AO1	Demonstrate knowledge and understanding of places, environments, concepts, processes, interactions and change, at a variety of scales.
AO2	Apply knowledge and understanding in different contexts to interpret, analyse and evaluate geographical information and issues.
AO3	Use a variety of relevant quantitative, qualitative and fieldwork skills to:
	investigate geographical questions and issues
	interpret, analyse and evaluate data and evidence
	construct arguments and draw conclusions.

# The marking grids

Do not think of levels equalling grade boundaries.

Depending on the part of the examination, the levels will have different mark ranges assigned to them. This will reflect the different weighting of Assessment Objectives in particular tasks and across the examination as a whole.

### Using the grids

Having familiarised yourself with the descriptors and indicative content, read through the answer and annotate it (as instructed below) to identify the qualities that are being looked for and that it shows. You can now check the levels and award a mark.

### Step 1 Determine a level

Start at the lowest level of the mark scheme and use it as a ladder to see whether the answer meets the descriptors for that level. The descriptors for the level indicate the different qualities that might be seen in the student's answer for that level. If it meets all the descriptors for the lowest level then go to the next one and decide if it meets this level, and so on, until you have a match between the level descriptors and the answer. With practice and familiarity you will find that for better answers you will be able to skip through the lower levels of the mark scheme quickly.

When assigning a level you should look at the overall quality of the answer and not look to pick holes in small and specific parts of the answer where the student has not performed quite as well as in the rest. If the answer covers different aspects of different levels of the mark scheme you should use a best-fit approach for defining the level and then use the variability of the response to help decide the mark within the level.

### Step 2 Determine a mark

Once you have assigned a level you need to decide on the mark.

It is often best to start in the middle of the level's mark range and then check and adjust. If there is a lot of indicative content fully identifiable in the work you need to give the highest mark in the level. If only some is identifiable or it is only partially fulfilled, then give the lower mark.

The exemplar materials used during standardisation will also help. There will be an answer in the standardising materials that will correspond with each level of the mark scheme. This answer will have been awarded a mark by the lead examiner. You can compare the student's answer with the example to determine if it is of the same standard, better or worse than the example. You can then use this to allocate a mark for the answer based on the lead examiner's mark on the example.

You may well need to read back through the answer as you apply the mark scheme to clarify points and assure yourself that the level and the mark are appropriate.

In addition to the levels descriptors, question specific indicative content is provided as a guide for examiners. This is not intended to be exhaustive and you must credit other valid points.

An answer that contains nothing of relevance to the question must be awarded no marks.

# **Annotating scripts**

You should write a summative comment at the end for each Assessment Objective and indicate the marks for each Assessment Objective being tested at the end of the answer in the margin in sequence. It is vital that the way you arrive at a mark should be recorded on the script. This will help you with making accurate judgements and it will help any subsequent markers to identify how you are thinking. Please do not write negative comments about students' work or their alleged aptitudes.

The below mark scheme is used to assess both Question 1 and Question 2.

#### Section A - Water carbon and life on Earth

Total	for	thie	section:	<b>4</b> 0	marke
iolai	IUI	una	SECHOII.	40	IIIai No

Question	Part	Marking guidance	Total marks
01	1	Which of these system diagrams shows a correct sequence of events within the water cycle?	1
		Key – C	AO1=1
01	2	Which of the following groups consists of human activities that are all adding to the concentration of greenhouse gases in the atmosphere?	1
		Key – B	AO1=1
01	3	Which of the following shows the four major layers of the planet that contain the majority of Earth's water in solid, liquid or gaseous form?	1
		Key – D	AO1=1
01	4	Which of the following are all ways of transferring carbon within the carbon cycle?	1
		Key – B	AO1=1
01	5	A system is in a state of dynamic equilibrium when:	1
		Key – D	AO1=1

Question	Part	Marking	guidance		Total marks			
02		_	Analyse the total flows between the atmosphere and the Earth and oceans in a year and calculate the net effect on atmospheric carbon.					
		carbon.						
	AO3 – There are a variety of ways of approaching this unseen material.							
	Students must select the relevant data from the diagram and distinguish between transfers from atmosphere to Earth and vice versa. Then they must calculate the total variations between the two and reach a conclusion about the net change over a year.							
		Mark scl	heme					
		Level	Marks	Description				
		2	4–6	AO3 – Clear selection and analysis of the evidence that has been provided, and then appropriate calculations are made from that evidence. Clear patterns are established and final calculation of the balance is completed.				
		1	1–3	AO3 – Some basic selection and analysis of the evidence that has been provided, and then appropriate calculations are made from that evidence. Some basic patterns are established and final calculation of the balance may be attempted.				

Question	Part	Marking guidanc	e	Total marks				
02		0	No creditable content.					
		Notes for answe	rs:					
		To the atmosp	here:					
		102 units fr	om the oceans					
		60 units fro	m soil					
		• 50 units fro	50 units from biota					
		• 1–2 units fr	• 1–2 units from deforestation					
		6 units from						
		• Total = 219						
		From the atmo	From the atmosphere					
		• 105 units to	105 units to the oceans					
		• 110 units to	110 units to the biota					
		• Total = 215	• Total = 215 units.					
		Balance to the tonnes of carb	atmosphere = 4–5 units per annum = 4–5 billion on.					

Question	Part	Marking	guidance	•	Total marks			
03			_	nich shows information about floods in the Indus in July and August 2010.	9 AO1=4			
		Analyse a in 2010.	and expla	nin the causes of the flooding in the Indus basin	AO2=5			
		drainage	<b>AO1</b> – Knowledge and understanding of the causes of floods in drainage basins, linked to knowledge and understanding of factors affecting flows in the water cycle.					
		in the Inc	dus draina ge and un ontributin	of knowledge and understanding to the conditions age basin. There should be an application of this iderstanding to analyse the human and physical g to flooding, and to the links between those				
		Level	Marks	Description				
		3	7–9	AO1 – Demonstrates detailed knowledge and understanding of concepts, processes, interactions and change.				
				AO2 – Applies knowledge and understanding to the novel situation, offering detailed analysis and evaluation, drawn appropriately from the context provided. Connections and relationships between different aspects of study are thorough				

Question	Part	Marking	guidance		Total marks	
03				and relevant.		
		2	4–6	AO1 – Demonstrates clear knowledge and understanding of concepts, processes, interactions and change.		
				AO2 – Applies knowledge and understanding to the novel situation, offering clear analysis and evaluation, drawn appropriately from the context provided. Connections and relationships between different aspects of study are evident and relevant.		
		1	1–3	AO1 – Demonstrates basic knowledge and understanding of concepts, processes, interactions and change.		
				AO2 – Applies limited knowledge and understanding to the novel situation, offering some basic analysis and evaluation, drawn from the context provided. Connections and relationships between different aspects of study are basic and of limited relevance.		
			0	No creditable content.		
		Notes fo	or answer	s:		
	<ul> <li>Natural processes operating at hill slope level and in drainage basins.</li> </ul>					
		to inc	lude: inter	outs to include precipitation, runoff: stores and flows ception, surface flow, through flow, stem flow, channel flow.		
		• The c	oncept of	water balance.		
			an impact rbanisatio	on drainage to include farming, land use change n.		
		• Know	ledge and	I understanding of the flood hydrograph.		
		AO2				
		_	evaporatio oon rainfa	on over the Indian Ocean led to a particularly heavy all.		
				n and 30th July over 200 mm of rainfall were ne locations in the basin.		
		• Rainfa	all averag	ed 128 mm over the whole basin on the 29th.		
				onths of July and August rainfall was more than all for the basin		
		• The ri	iver reach	ed record levels of flow.		
		• Flood	control sy	ystems were washed away or severely damaged.		

Question	Part	Marking guidance	Total marks
03		Many separate tributaries meet below Lahore and, where this happened, the river was obviously unable to drain the water away and the flood built up.	
		Soils would already have been saturated by antecedent rainfall and so were unable to absorb the excess rainfall.	

Question	Part	Marking	guidance		Total marks				
04		-	In tropical rain forests the year-round supply of heat and moisture lead to the rapid recycling of the carbon stored in the						
		Explain soils, ag	rganic material of the forest vegetation.  xplain the importance of this statement for the development of oils, agriculture and other human activities in one or more rain prest areas that you have studied.						
		<b>AO1</b> – Ki	<b>D1</b> – Knowledge and understanding of the role of rain forest getation in the carbon and water cycles.						
				nderstanding of the role of rain forest climate in ses in the carbon and water cycles.					
		inter-rela temperat	tionships ure, vege	of knowledge and understanding to explain the between moisture availability, sunlight, tation and soils in the operation of the carbon and erain forest regions.					
				uld come to a view with regard to the strength and se interrelationships.					
		Mark scl	neme						
		Level	Marks	Description					
		4	16–20	AO2 – Detailed evaluative conclusion that is rational and firmly based on knowledge and understanding which is applied to the context of the question.					
				AO2 – Detailed, coherent and relevant analysis and evaluation in the application of knowledge and understanding throughout.					
				AO2 – Full evidence of links between knowledge and understanding to the application of knowledge and understanding in different contexts.					
				AO1 – Detailed, highly relevant and appropriate knowledge and understanding of place(s) and environments used throughout.					
				AO1 – Full and accurate knowledge and understanding of key concepts and processes throughout.					
				AO1 – Detailed awareness of scale and temporal change which is well integrated where					

Question	Part	Marking	guidance		Total marks
04				appropriate.	
		3	11–15	AO2 – Clear evaluative conclusion that is based on knowledge and understanding which is applied to the context of the question.	
				AO2 – Generally clear, coherent and relevant analysis and evaluation in the application of knowledge and understanding.	
				AO2 – Generally clear evidence of links between knowledge and understanding to the application of knowledge and understanding in different contexts.	
				AO1 – Generally clear and relevant knowledge and understanding of place(s) and environments.	
				AO1 – Generally clear and accurate knowledge and understanding of key concepts and processes.	
				AO1 – Generally clear awareness of scale and temporal change which is integrated where appropriate.	
		2	6–10	AO2 – Some sense of an evaluative conclusion partially based upon knowledge and understanding which is applied to the context of the question.	
				AO2 – Some partially relevant analysis and evaluation in the application of knowledge and understanding.	
				AO2 – Some evidence of links between knowledge and understanding to the application of knowledge and understanding in different contexts.	
				AO1 – Some relevant knowledge and understanding of place(s) and environments which is partially relevant.	
				AO1 – Some knowledge and understanding of key concepts, processes and interactions and change.	
				AO1 – Some awareness of scale and temporal change which is sometimes integrated where appropriate. There may be a few inaccuracies.	
		1	1–5	AO2 – Very limited and/or unsupported evaluative conclusion that is loosely based upon knowledge and understanding which is applied to the context of the question.	
				AO2 – Very limited analysis and evaluation in	

Question	Part	Marking g	uidance		Total marks
04				the application of knowledge and understanding. This lacks clarity and coherence.	
				AO2 – Very limited and rarely logical evidence of links between knowledge and understanding to the application of knowledge and understanding in different contexts.	
				AO1 – Very limited relevant knowledge and understanding of place(s) and environments.	
				<b>AO1</b> – Isolated knowledge and understanding of key concepts and processes.	
				AO1 – Very limited awareness of scale and temporal change which is rarely integrated where appropriate. There may be a number of inaccuracies.	
			0	No creditable content.	
		Notes for	answer	s:	
		AO1			
			-	es are hot all year round. Statistics for particular given in support.	
				stent throughout most of the year. Statistics for on may be given in support.	
		penetra	ating thro	ud cover there is always enough solar radiation bugh to the vegetation to allow photosynthesis to ecially in the canopy and other higher layers.	
	Organic matter fixed by the leaves is mostly absorbed into the plant structures. The nature of the rain forest cover may be illustrated with reference to a specific case study.				
		damag temper	ed parts,	are no seasons plants lose their leaves and other at different times during the year, but nd humidity encourage the rapid decomposition of rial.	
		growth		erial can then be recycled very quickly by the rapid plants. Some is recycled by epiphytes without ever il.	
				e for the humus to be carried down below the horizons before it is reabsorbed by plants.	
			-	does wash some decomposed and decomposing ff into rivers, so that it is lost to the forest.	
				getation for farming leads to removal of most of ients from the vegetation/soil system.	
				I takes place because soil is exposed to leaching of interception.	

Question	Part	Marking guidance	Total marks
		AO2	
		Analysis and explanation of the transfers and stores within the water cycle and the carbon cycle and their reflection in the development of the ecosystems of the rain forest.	
		Analysis and explanation of the necessity for the interlinking of the carbon cycle, the water cycle and the nutrient cycle through the mechanism of photosynthesis.	
		Analysis and explanation of the processes of decomposition as a process within the carbon (and water) cycle. The involvement of soil organisms and other detritivores in this part of the cycle.	
		Analysis and explanation of the nature and formation of tropical soils and the role of heat, moisture, vegetation and soil fauna in developing the soils and differentiating the horizons in the soil.	
		Analysis and evaluation of the effects of human interference in the rain forest ecosystem. Reference may be made to subsistence 'slash and burn' agriculture, large-scale commercial clearance for ranching, soya farming, etc.	
		Analysis and evaluation of the effects of lumbering, road building, mining, dam construction, etc might also be made.	
		Analysis and evaluation of the effects of conservation policies such as the development of national parks may also be seen, considering how and to what extent such policies can slow down the process of deforestation.	

## Section B – Ecosystems under stress

Question	Part	Marking guidance	Total marks
05	1	In an ecosystem a primary producer is:	1
		Key – B	AO1=1
05	2	A seral progression is:	1
		Key – B	AO1=1
05	3	Which of the following groups are all biomes?	1
		Key – C	AO1=1
05	4	The savannah grassland biome is found in areas with:	1
		Key – A	AO1=1
05	5	The rainforest biome is characterised by:	1
		Key – B	AO1=1

Total for this section: 40 marks

AO3- There are a variet material.  This question requires a temperatures recorded a in percentage coral cover marks there should also marks there should also with the state of the series of the seri	ded in Figure 3a and Figure 3b.  y of ways of approaching this unseen  nalysis of the changes in sea surface at the Great Barrier Reef alongside changes or and coral mortality data. For maximum be use of specific data.  cription  3- Clear analysis of the quantitative lence provided which makes ropriate use of data to support. Clear nections between different aspects of data.  3- Basic analysis of the quantitative lence provided which makes limited of data to support. Basic or limited nections between different aspects of data.	6 AO3=6
material.  This question requires a temperatures recorded a in percentage coral cover marks there should also  Level Marks Design	nalysis of the changes in sea surface at the Great Barrier Reef alongside changes or and coral mortality data. For maximum be use of specific data.  Cription  3- Clear analysis of the quantitative lence provided which makes ropriate use of data to support. Clear nections between different aspects of data.  3- Basic analysis of the quantitative lence provided which makes limited of data to support. Basic or limited nections between different aspects of	AO3=6
2 4-6 AO: evic app con the  1 1-3 AO: evic use con the  0 No  Indicative Content  • It is clear from fig fluctuated over ti general pattern of than average red amount. • The recorded ter +2°F - a range of • When temperature	B- Clear analysis of the quantitative lence provided which makes ropriate use of data to support. Clear nections between different aspects of data.  B- Basic analysis of the quantitative lence provided which makes limited of data to support. Basic or limited nections between different aspects of	
2 4-6 AO: evic app con the  1 1-3 AO: evic use con the  0 No  Indicative Content  • It is clear from fig fluctuated over ti general pattern of than average red amount. • The recorded ter +2°F - a range of • When temperature	B- Clear analysis of the quantitative lence provided which makes ropriate use of data to support. Clear nections between different aspects of data.  B- Basic analysis of the quantitative lence provided which makes limited of data to support. Basic or limited nections between different aspects of	
Indicative Content  It is clear from fig fluctuated over ti general pattern of than average red amount.  The recorded ter +2°F - a range of When temperature.	lence provided which makes limited of data to support. Basic or limited nections between different aspects of	
Indicative Content  • It is clear from fig fluctuated over ti general pattern of than average red amount.  • The recorded tern +2°F - a range of When temperature.		
<ul> <li>It is clear from figure fluctuated over the general pattern of than average recommendation.</li> <li>The recorded term of the second term of the second o</li></ul>	creditable content.	
in percentage co Figure 3b shows cover has also fl greatest mortality than 5% loss in o with less than 1% Figure 3b shows only been evider and 2004) and h the data in figure	the annual mortality of coral in percentage uctuated between 1986 and 2011. The was seen in 1999 and 2000 with greater coverage. The least loss was seen in 2008 cover lost. That bleaching as a cause of mortality has it in six of the recorded years (between 1998 as not been evident post 2004. This supports 3a. aused coral mortality in all years except 1993	

Question	Part	Marking	Marking guidance					
07		Read the	Read the extract in Figure 4.					
		Analyse the Grea	AO1=4 AO2=5					
		AO1 – K the grow						
	Knowledge and understanding of the factors affecting global and local sea temperatures and of the way that changing temperatures affect coral.							
		in the Ed	AO2 – Application of knowledge and understanding to the conditions in the Eden drainage basin. There should be an application of this knowledge and understanding to analyse the human and physical factors contributing to flooding, and to the links between those factors.					
		Mark sc	heme					
		Level	Marks	Description				
		3	7–9	AO1 – Demonstrates detailed knowledge and understanding of concepts, processes, interactions and change.				
				AO2 – Applies knowledge and understanding to the novel situation, offering detailed analysis and evaluation, drawn appropriately from the context provided. Connections and relationships between different aspects of study are thorough and relevant.				
		2	4–6	AO1 – Demonstrates clear knowledge and understanding of concepts, processes, interactions and change.				
				AO2 – Applies knowledge and understanding to the novel situation, offering clear analysis and evaluation, drawn appropriately from the context provided. Connections and relationships between different aspects of study are evident and relevant.				
		1	1–3	AO1 – Demonstrates basic knowledge and understanding of concepts, processes, interactions and change.				
				AO2 – Applies limited knowledge and understanding to the novel situation, offering some basic analysis and evaluation, drawn from the context provided. Connections and relationships between different aspects of study are basic and of limited relevance.				
			0	No creditable content.				
		Notes fo	or answer	rs:				

Question	Part	Marking guidance	Total marks
07		AO1	
		Sunlight: Corals need to grow in shallow water where sunlight can reach them. Corals depend on the zooxanthellae (algae) that grow inside of them for oxygen, and since these algae need sunlight to survive, corals also need sunlight to survive. Corals rarely develop in water deeper than 165 feet (50 metres).	
		Clear water: Corals need clear water that lets sunlight through; they don't thrive when the water is opaque. Sediment and plankton can cloud water, which decreases the amount of sunlight that reaches the zooxanthellae.	
		Warm water temperature: Reef-building corals require warm water conditions to survive. Different corals living in different regions can withstand various temperature fluctuations. However, corals generally live in water temperatures of 20–32° C. The range of temperature that can be tolerated by individual species is usually narrower than this.	
		Clean water: Corals are sensitive to pollution and sediments. Sediment can create cloudy water and be deposited on corals, blocking out the sun and harming the polyps. Wastewater discharged into the ocean near the reef can contain too many nutrients that cause seaweeds to overgrow the reef.	
		Saltwater: Corals need saltwater to survive and require a certain balance in the ratio of salt to water.	
		AO2	
		The global temperature is rising, at least partly due to human activities such as burning fossil fuels and clearing forests, and this has affected the background temperature of the oceans.	
		On top of this the reversal of currents caused by the El Niño effect in the Pacific Ocean brings major temperature surges to the coastal regions to the east of Australia. Recent El Niño's have been showing increased temperature fluctuations, possibly linked to the overall global climate changes.	
		These changes were probably enough to kill species of coral polyp and other species living in the reef. The death of the polyps lead to the bleaching of the reef and the deaths of these and other species would have upset the whole ecology of the reef. It will probably take many years to re-establish the ecosystem even if temperatures return to the previous normal.	
		However, the circulation patterns in the ocean further to the south were more heavily influenced by the cyclone that would have brought cooler water from the south up to the southern parts of the reef. This would have counteracted the effect of global change and of the El Niño.	
		Changing currents may also have brought sediments into the reef area and these might have been deposited, adding to the stress on the coral.	
		This deposition might have been supplemented by the remains of	

Question	Part	Marking guidance	Total marks
07		dead flora and fauna, which may also have covered parts of the reef, reducing the penetration of sunlight.	

Question	Part	Marking	guidance		Total marks
08		concept now so v	in the st widespre here Clim	matic climax vegetation community is a useful udy of ecology. However, climate change is ad that there are probably few areas of the natic climax communities still exist in a stable	20 AO1 = 10 AO2 = 10
		To what			
		AO1 – Ki climax, p dynamic			
		Knowled	ge and ur	nderstanding of one or more terrestrial ecosystems.	
		inter-rela produce	tionships ecosyste	of knowledge and understanding to explain the between climate, soils, relief and vegetation to ms through the development of seres and ds a climax community.	
		which se	ral progre	wledge and understanding to explain the ways in essions can be interrupted by natural or human sub-climax or plagioclimax communities.	
		areas of interrupte	the world ed and ca	extent to which climate change is now destabilising to the extent that seral progressions are inevitably nnot proceed in the way that theoretical studies nat they should.	
		Analysis to the ext			
		Mark scl	neme		
		Level	Marks	Description	
		4	16–20	AO2 – Detailed evaluative conclusion that is rational and firmly based on knowledge and understanding which is applied to the context of the question.	
				AO2 – Detailed, coherent and relevant analysis and evaluation in the application of knowledge and understanding throughout.	
				AO2 – Full evidence of links between knowledge and understanding to the application of knowledge and understanding in different contexts.	
				AO1 – Detailed, highly relevant and appropriate knowledge and understanding of place(s) and	

Question	Part	Marking	guidance		Total marks
08				environments used throughout.	
				AO1 – Full and accurate knowledge and understanding of key concepts and processes throughout.	
				AO1 – Detailed awareness of scale and temporal change which is well integrated where appropriate.	
		3	11–15	AO2 – Clear evaluative conclusion that is based on knowledge and understanding which is applied to the context of the question.	
				AO2 – Generally clear, coherent and relevant analysis and evaluation in the application of knowledge and understanding.	
				AO2 – Generally clear evidence of links between knowledge and understanding to the application of knowledge and understanding in different contexts.	
				AO1 – Generally clear and relevant knowledge and understanding of place(s) and environments.	
				AO1 – Generally clear and accurate knowledge and understanding of key concepts and processes.	
				AO1 – Generally clear awareness of scale and temporal change which is integrated where appropriate.	
		2	6–10	AO2 – Some sense of an evaluative conclusion partially based upon knowledge and understanding which is applied to the context of the question.	
				<b>AO2</b> – Some partially relevant analysis and evaluation in the application of knowledge and understanding.	
				AO2 – Some evidence of links between knowledge and understanding to the application of knowledge and understanding in different contexts.	
				AO1 – Some relevant knowledge and understanding of place(s) and environments which is partially relevant.	
				<b>AO1</b> – Some knowledge and understanding of key concepts, processes and interactions and change.	
				AO1 – Some awareness of scale and temporal change which is sometimes integrated where	

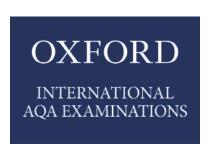
Question	Part	Marking	guidance		Total marks
08				appropriate. There may be a few inaccuracies.	
		1	1–5	AO2 – Very limited and/or unsupported evaluative conclusion that is loosely based upon knowledge and understanding which is applied to the context of the question.	
				AO2 – Very limited analysis and evaluation in the application of knowledge and understanding. This lacks clarity and coherence.	
				AO2 – Very limited and rarely logical evidence of links between knowledge and understanding to the application of knowledge and understanding in different contexts.	
				AO1 – Very limited relevant knowledge and understanding of place(s) and environments.	
				AO1 – Isolated knowledge and understanding of key concepts and processes.	
				AO1 – Very limited awareness of scale and temporal change which is rarely integrated where appropriate. There may be a number of inaccuracies.	
			0	No creditable content.	
		AO1	or answer	ax community is an ecological community in the	
				uccession, in which the species composition.	
				rely stable until a disturbance such as fire occurs.	
		stage as rep	short of the	the development of an ecological community to a he expected climax because of some factor, such es in a forest or impeded drainage that arrests the sion.	
		interve the cli	enes in a matic clim	community is one in which human activity consistent way to stop the development towards nax. Agriculture, gardening or conservation of nunities are examples.	
		the pa	ice of cha	e is occurring, and has always occurred, but now inge is probably greater than at any time in the is change is likely to continue.	
				d be illustrated with knowledge and understanding ecosystems.	
		AO2			
		• Explai	nation of t	the mechanisms of change in ecosystems,	

Question	Part	Marking guidance	Total marks
08		analysing the way in which the different elements of the ecosystem have normally interacted.	
		Analysis and explanation of the concept of equilibrium and dynamic equilibrium.	
		<ul> <li>Analysis and explanation of the processes whereby climate has changed and will probably continue to change, and of the way these changes have affected and are likely to continue to affect particular ecosystems.</li> </ul>	
		<ul> <li>Analysis and explanation of the nature of climate change and of the probable future progress of climate change, whether entirely natural or at least partly man-made.</li> </ul>	
		Attempts to draw conclusions based on the presentation and analysis of the evidence. Attempts to achieve a balanced view, supported by the strongest available evidence.	

# **GET HELP AND SUPPORT**

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