

Cambridge International AS & A Level

GEOGRAPHY
9696/32
Paper 3 Advanced Physical Geography Options
MARK SCHEME
MARK SCHEME

Maximum Mark: 60

Published	
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Students did not sit exam papers in the June 2020 series due to the Covid-19 global pandemic.

This mark scheme is published to support teachers and students and should be read together with the question paper. It shows the requirements of the exam. The answer column of the mark scheme shows the proposed basis on which Examiners would award marks for this exam. Where appropriate, this column also provides the most likely acceptable alternative responses expected from students. Examiners usually review the mark scheme after they have seen student responses and update the mark scheme if appropriate. In the June series, Examiners were unable to consider the acceptability of alternative responses, as there were no student responses to consider.

Mark schemes should usually be read together with the Principal Examiner Report for Teachers. However, because students did not sit exam papers, there is no Principal Examiner Report for Teachers for the June 2020 series.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the June 2020 series for most Cambridge IGCSE™ and Cambridge International A & AS Level components, and some Cambridge O Level components.

Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always whole marks (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit
 is given for valid answers which go beyond the scope of the syllabus and mark scheme,
 referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

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Answer questions from **two** different options.

Tropical environments

If answering this option, answer Question 1 and either Question 2 or Question 3.

Question	Answer	Marks
1(a)	Fig. 1.1 is a photograph which shows seasonally humid tropical (savanna) vegetation in Africa.	4
	Using evidence from Fig. 1.1, describe the main features of the savanna vegetation shown.	
	Candidates should interpret the photograph to recognise and describe the main features of the vegetation.	
	Features of the vegetation may include: Iimited density of trees (acacia) trees have umbrella shape branchless trunks extensive grass cover some small bushes/shrubs	
	Note: No credit for reference to features not visible, such as extensive root systems.	
	1 mark for each relevant feature with a further mark available for development up to the maximum.	

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Question	Answer	Marks
1(b)	Suggest reasons for <u>two</u> of the features you described in <u>(a)</u> .	6
	The focus of this explanation is likely to be the high temperatures and variable rainfall and their influence on the vegetation. Other factors such as soil and fire are also relevant.	
	 Explanation may include: high temperatures giving long thermal growing season and opportunities for vegetation to photosynthesise seasonal rainfall limits tree growth but provides enough water for grass to flourish umbrella shape of trees provides opportunities for interception and shades the ground/roots to limit evapotranspiration extensive root systems to maximise uptake of water and nutrients from a wide area soils may be leached, sandy (dry) and lacking nutrients so unable to support many trees influence of fire also relevant, which grasses are better able to survive Award marks based on the quality of explanation and breadth of the response using the marking levels below.	
	Level 3 (5–6) Response addresses two features, and is reasonably well balanced between the two. Good explanation of the relevant features and the role of the climatic or other factors. Response is well founded in detailed knowledge and strong conceptual understanding of the topic. Any examples used are appropriate and integrated effectively into the response.	
	Level 2 (3–4) Response addresses two features in a limited manner or may address one in more depth. May be lacking links to appropriate factors. Response develops on a largely secure base of knowledge and understanding. Examples may lack detail or development.	
	Level 1 (1–2) Response comprises one or more points which address one feature in outline. Knowledge is basic and understanding may be inaccurate. Examples are in name only or lacking entirely.	
	Level 0 (0) No creditable response.	

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Question	Answer	Marks
2	Assess the extent to which humid tropical climates and seasonally humid tropical climates are influenced by the position of the intertropical convergence zone (ITCZ).	20
	Candidates are free to develop their own approach to the question and responses will vary depending on the example(s) chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. The direction of the response and evaluation made will depend on the approach chosen, and any evaluation is therefore valid, if argued and based on evidence.	
	 Relevant factors include: ITCZ – its relationship to rising air/low pressure and its varying position air masses – their temperature and moisture characteristics sub-tropical high pressure – its influence on temperature inversions and its blocking role ocean currents – warm and cold; their influence on rainfall and temperature wind – influence of land and sea breezes monsoons – seasonal influences altitude – influence on temperature and rainfall. There must be some attempt to assess the relative influence, but the response may be argued in different ways. There should be a good understanding of the concept of climate systems. 	

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Question	Answer	Marks
2	Award marks based on the quality of the response using the marking levels below.	
	Level 4 (16–20) Response thoroughly discusses the relative importance of the ITCZ and a range of other factors. An effective and sustained evaluation with a sound conclusion. Response is well founded in detailed exemplar knowledge and strong conceptual understanding of the topic. Examples used are appropriate and integrated effectively into the response.	
	Level 3 (11–15) Response discusses the relative importance of the ITCZ and some other factors in a fairly balanced way with well integrated examples of locations and data to support the discussion. Response is broadly evaluative in character, comprising some explanatory or narrative content and a conclusion. Response develops on a largely secure base of knowledge and understanding with the use of example(s).	
	Level 2 (6–10) Response demonstrates some knowledge and understanding of the ITCZ and at least one other factor, but not necessarily in a balanced way. Response is mainly descriptive or explanatory in approach and contains a brief or thinly supported evaluation. Responses without the use of example(s) to support the response will not get above the middle of Level 2 (8 marks).	
	Level 1 (1–5) Response makes a few general points about the ITCZ without the necessary reference to other factors. A descriptive response comprising a few simple points. Knowledge is basic and understanding may be poor and lack relevance to the question set.	
	Level 0 (0) No creditable response.	

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Question	Answer	Marks
3	'Cockpit karst and tower karst are formed in different conditions.' With the aid of examples, how far do you agree?	20
	Candidates are free to develop their own approach to the question and responses will vary depending on the example(s) chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. The direction of the response and evaluation made will depend on the approach chosen, and any evaluation is therefore valid, if argued and based on evidence.	
	Arguments for include: cockpit karst occurs in areas of high rates of tectonic uplift and intense vertical erosion by rivers	
	another view is formation by cave collapseheights are similar	
	 whereas tower karst is formed in areas of limited/no tectonic uplift where the water table is close to the surface and limestone lies close to other rocks heights are more variable. 	
	Arguments against include: • both are formed in the same/similar conditions • tower karst results from widening and deepening of cockpits over time • cockpits fill with sediments just above the water table.	
	Note: No credit for cone karst.	

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Question	Answer	Marks
3	Award marks based on the quality of the response using the marking levels below.	
	Level 4 (16–20) Response thoroughly discusses the contrasting landforms and evaluates their relative formation. An effective and sustained evaluation with a sound conclusion. Response is well founded in detailed exemplar knowledge and strong conceptual understanding of the topic. Examples used are appropriate and integrated effectively into the response.	
	Level 3 (11–15) Response discusses the contrasting landforms and evaluates their relative formation. Response is broadly evaluative in character, comprising some explanatory or narrative content and a conclusion. Response develops on a largely secure base of knowledge and understanding with the use of example(s).	
	Level 2 (6–10) Response demonstrates some knowledge and understanding of the contrasting landforms. Evaluation of their relative formation may be undeveloped or lacking. Response is mainly descriptive or explanatory in approach and contains a brief or thinly supported evaluation. Responses without the use of example(s) to support the response will not get above the middle of Level 2 (8 marks).	
	Level 1 (1–5) Response makes a few general points about karst without the necessary focus on the contrasting views. A descriptive response comprising a few simple points. Knowledge is basic and understanding may be poor and lack relevance to the question set.	
	Level 0 (0) No creditable response.	

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Coastal environments

If answering this option, answer Question 4 and either Question 5 or Question 6.

Question	Answer	Marks
4(a)	Fig. 4.1 shows summer and winter beach profiles at a location in the USA.	4
	Describe the similarities <u>and</u> differences between the summer and winter beach profiles shown in Fig. 4.1.	
	Candidates should interpret Fig. 4.1 to identify features of the two profiles shown. Similarities and differences should both be addressed.	
	The main features are: profiles are the same overall length profiles have the same overall change in height winter profile is steeper at the top winter profile is less steep just offshore use of height/distance data as evidence	
	mark for each valid point. mark for accurate use of data. Similarities and differences required for maximum. Maximum 2 if similarities/differences are not explicit.	

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Question	Answer	Marks
4(b)	Suggest reasons for the differences you described in (a).	6
	Candidates require an understanding of the seasonal variations in wave conditions and how it influences beach profiles.	
	 Reasons include: winds are stronger in winter, so waves have more energy erosion occurs due to a strong backwash which steepens the top of the beach sediment removed is then deposited as energy is lost returning into the sea sand accumulates as offshore bars/banks the reverse is true in the summer and so the original profile is restored different types of wave (constructive/destructive) beach material (sand/shingle) 	
	There is no requirement to refer to located examples, but credit can be given if they aid the quality of the response. References to the temperate location may aid explanation.	
	Award marks based on the quality of explanation and breadth of the response using the marking levels below.	
	Level 3 (5–6) Response applies knowledge and understanding of wave characteristics and convincingly explains the changes. Response is well founded in detailed knowledge and strong conceptual understanding of the topic. Any examples used are appropriate and integrated effectively into the response.	
	Level 2 (3–4) Response offers some knowledge of seasonal variations in wave energy but explanation may be unbalanced or limited. Response develops on a largely secure base of knowledge and understanding. Examples may lack detail or development.	
	Level 1 (1–2) Response is broadly about waves but seasonal variations are not clearly identified and explanations are insecure. Knowledge is basic and understanding may be inaccurate. Examples are in name only or lacking entirely.	
	Level 0 (0) No creditable response.	

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Question	Answer	Marks
5	Assess the significance of different threats to coral reefs.	20
	Candidates are free to develop their own approach to the question and responses will vary depending on the example(s) chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. The direction of the response and evaluation made will depend on the approach chosen, and any evaluation is therefore valid, if argued and based on evidence.	
	There must be some attempt at assessing the threats.	
	 Threats include: global warming – higher sea temperatures, increased storminess, acidification sea level rise pollution – discharge of effluent/sediments/chemicals/sewage physical damage – fishing methods/tourism 	
	Candidates should attempt to make linkages between the threats and the potential impacts.	
	Credit other valid threats.	

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Question	Answer	Marks
5	Award marks based on the quality of the response using the marking levels below.	20
	Level 4 (16–20) Response thoroughly discusses a range of threats and assesses their significance to coral reefs. Response demonstrates a strong and balanced understanding of how coral reefs respond to the threats imposed. An effective and sustained evaluation with a sound conclusion. Response is well founded in detailed exemplar knowledge and strong conceptual understanding of the topic. Examples used are appropriate and integrated effectively into the response.	
	Level 3 (11–15) Response discusses a range of threats and assesses their significance to coral reefs. Discussion of the threats may be unbalanced towards one or two of them. Response is broadly evaluative in character, comprising some explanatory or narrative content and a conclusion. Response develops on a largely secure base of knowledge and understanding with the use of example(s).	
	Level 2 (6–10) Response demonstrates some knowledge and understanding of a limited range of threats. Discussion of their significance may be limited and not well linked to reefs. Response is mainly descriptive or explanatory in approach and contains a brief or thinly supported evaluation. Responses without the use of example(s) to support the response will not get above the middle of Level 2 (8 marks).	
	Level 1 (1–5) Response makes a few general points about threats without the necessary focus on the influence of them on reefs. A descriptive response comprising a few simple points. Knowledge is basic and understanding may be poor and lack relevance to the question set.	
	Level 0 (0) No creditable response.	

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Question	Answer	Marks
6	Using a case study, evaluate the attempted solutions to the problems of sustainably managing a stretch, or stretches, of coastline.	20
	Candidates are free to develop their own approach to the question and responses will vary depending on the example(s) chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. The direction of the response and evaluation made will depend on the approach chosen, and any evaluation is therefore valid, if argued and based on evidence. There may be detailed consideration of a single stretch of coastline or a more broadly conceived response relating to stretches of coastline. There must be some attempt at evaluating the solutions.	
	Solutions may include: hard engineering, e.g. groynes, revetments, riprap soft engineering, e.g. beach nourishment, vegetation planting, regrading managed retreat, e.g. red-lining shoreline management planning 	

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Question	Answer	Marks
6	Award marks based on the quality of the response using the marking levels below.	
	Level 4 (16–20) Response thoroughly discusses a range of different solutions with a secure understanding of the strategies involved. An effective and sustained evaluation with a sound conclusion. Response is well founded in detailed exemplar knowledge and strong conceptual understanding of the topic. Examples used are appropriate and integrated effectively into the response.	
	Level 3 (11–15) Response discusses a range of solutions but may focus on one at the expense of others. The understanding of the concept of sustainability may be limited and less secure. Response is broadly evaluative in character, comprising some explanatory or narrative content and a conclusion. Response develops on a largely secure base of knowledge and understanding with the use of example(s).	
	Level 2 (6–10) Response demonstrates some knowledge and understanding of some attempted solutions but understanding of their sustainability may not be secure. Links to problems may be limited, lack development and may not be identified clearly. Response is mainly descriptive or explanatory in approach and contains a brief or thinly supported evaluation. Responses without the use of example(s) to support the response will not get above the middle of Level 2 (8 marks).	
	Level 1 (1–5) Response makes a few general points about coastal management without the necessary focus on solutions to problems of sustainability. A descriptive response comprising a few simple points. Knowledge is basic and understanding may be poor and lack relevance to the question set.	
	Level 0 (0) No creditable response.	

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Hazardous environments

If answering this option, answer Question 7 and either Question 8 or Question 9.

Question	Answer	Marks
7(a)	Fig. 7.1 shows ash fallout from Mount Ruapehu, a volcano in New Zealand, 1995–6.	4
	Describe the pattern of ash fallout shown in Fig. 7.1.	
	Candidates should interpret Fig. 7.1 to identify the pattern of ash fallout across the area.	
	Candidates may identify that: ash fallout is broadly westerly specific direction varies on different dates distance travelled also varies thickness of fallout decreases with distance	
	mark for each valid point. Allow one mark maximum for accurate use of data.	

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Question	Answer	Marks
7(b)	Suggest <u>two</u> reasons for the pattern you described in <u>(a)</u> .	6
	Candidates should focus on the pattern described.	
	Reasons include: direction of winds may influence direction of ash travel strength of wind influences distance of travel amount of ash ejected influences thickness of deposits proximity to the vent influences thickness of fallout relief of the landscape, including the presence of valleys which may channel ash in clouds in particular directions	
	Award marks based on the quality of explanation and breadth of the response using the marking levels below.	
	Level 3 (5–6) Response applies knowledge and understanding of two reasons and explains their influence on the pattern. Response is well founded in detailed knowledge and strong conceptual understanding of the topic. Any examples used are appropriate and integrated effectively into the response.	
	Level 2 (3–4) Response discusses at least one reason, possibly in an unbalanced way, making some explanatory links to at least one element of the pattern. Response develops on a largely secure base of knowledge and understanding. Examples may lack detail or development.	
	Level 1 (1–2) Response consists of one or more descriptive statements with little or no explanation of the pattern. Knowledge is basic and understanding may be inaccurate. Examples are in name only or lacking entirely.	
	Level 0 (0) No creditable response.	

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Question	Answer	Marks
8	Assess the relative importance of prediction in reducing the impacts of large scale atmospheric disturbances.	20
	Candidates are free to develop their own approach to the question and responses will vary depending on the example(s) chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. The direction of the response and evaluation made will depend on the approach chosen, and any evaluation is therefore valid, if argued and based on evidence.	
	There must be some attempt at assessing the relative importance of different strategies.	
	Large scale atmospheric disturbances include:	
	 Management strategies include: prediction – using computer modelling preparedness – including land use zoning, evacuation and early warning systems monitoring – including satellite images, radar, GIS 	

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Question	Answer	Marks
8	Award marks based on the quality of the response using the marking levels below.	
	Level 4 (16–20) Response thoroughly discusses the importance of prediction and other strategies in a balanced way. Response considers importance in terms of effectiveness in reducing impacts on lives and property. An effective and sustained evaluation with a sound conclusion. Response is well founded in detailed exemplar knowledge and strong conceptual understanding of the topic. Examples used are appropriate and integrated effectively into the response.	
	Level 3 (11–15) Response discusses prediction and at least one other strategy, maybe developing one more than the others. The consideration of importance may be implicit. Response is broadly evaluative in character, comprising some explanatory or narrative content and a conclusion. Response develops on a largely secure base of knowledge and understanding with the use of example(s).	
	Level 2 (6–10) Response demonstrates some knowledge and understanding of prediction and at least one other strategy. Response may lack consideration of importance. Response is mainly descriptive or explanatory in approach and contains a brief or thinly supported evaluation. Responses without the use of example(s) to support the response will not get above the middle of Level 2 (8 marks).	
	Level 1 (1–5) Response makes a few general points about prediction without the consideration of importance. A descriptive response comprising a few simple points. Knowledge is basic and understanding may be poor and lack relevance to the question set.	
	Level 0 (0) No creditable response.	

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Question	Answer	Marks
9	Assess the extent to which physical factors, rather than human factors, cause mass movements.	20
	Candidates are free to develop their own approach to the question and responses will vary depending on the example(s) chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. The direction of the response and evaluation made will depend on the approach chosen, and any evaluation is therefore valid, if argued and based on evidence.	
	There should be evaluation of the relative roles of the two groups of factors.	
	Physical factors may include: relief climate geology soil tectonic activity undercutting of slopes (river, marine, glacial) Human factors may include:	
	 building on slopes construction of road/rail cuttings deforestation agriculture 	
	Contextual understanding of the relationship between shear stress and strength should be credited.	

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Question	Answer	Marks
9	Award marks based on the quality of the response using the marking levels below.	
	Level 4 (16–20) Response thoroughly discusses the importance of physical and human factors in a balanced way. Response considers causal links between factors and mass movements. An effective and sustained evaluation with a sound conclusion. Response is well founded in detailed exemplar knowledge and strong conceptual understanding of the topic. Examples used are appropriate and integrated effectively into the response.	
	Level 3 (11–15) Response discusses the importance of physical and human factors in a reasonably balanced way. Response is broadly evaluative in character, comprising some explanatory or narrative content and a conclusion. Response develops on a largely secure base of knowledge and understanding with the use of example(s).	
	Level 2 (6–10) Response demonstrates some knowledge and understanding of both physical and human factors but discussion may be unbalanced. Response is mainly descriptive or explanatory in approach and contains a brief or thinly supported evaluation. Responses without the use of example(s) to support the response will not get above the middle of Level 2 (8 marks).	
	Level 1 (1–5) Response makes a few general points about a limited number of factors without the necessary evaluation. A descriptive response comprising a few simple points. Knowledge is basic and understanding may be poor and lack relevance to the question set.	
	Level 0 (0) No creditable response.	

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Hot arid and semi-arid environments

If answering this option, answer Question 10 and either Question 11 or Question 12.

Question	Answer	Marks
10(a)	Fig. 10.1 is a climate graph for Naghbi, Saudi Arabia.	4
	Describe the climate of Naghbi, Saudi Arabia, shown in Fig. 10.1.	
	Candidates should interpret Fig. 10.1 to identify the key features of the climate.	
	Candidates may describe: low precipitation total; approximately 150 mm relatively even annual pattern of precipitation; 15 mm range high mean temperature; approximately 30°C limited seasonal variation in temperature; range approximately 10°C	
	mark for each descriptive point. mark for accurate use of data.	

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Question	Answer	Marks
10(b)	Explain the high diurnal temperature range of hot arid environments. Reasons include: • high temperatures during the day due to high angle sun giving intense insolation • and lack of cloud cover due to limited moisture and sinking air • night-time temperatures much lower as terrestrial radiation occurs • and lack of cloud cover to absorb it	Marks 6
	Award marks based on the quality of explanation and breadth of the response using the marking levels below. Level 3 (5–6) Response applies knowledge and understanding of atmospheric conditions during both day and night. Response is well founded in detailed knowledge and strong conceptual understanding of the topic. Any examples used are appropriate and integrated effectively into the response.	
	Level 2 (3–4) Response offers some reasons for the high diurnal range but explanation may focus on either day or night. Response develops on a largely secure base of knowledge and understanding. Examples may lack detail or development.	
	Level 1 (1–2) Response describes a high diurnal range with one or more reasons for it in a broad way. Knowledge is basic and understanding may be inaccurate. Examples are in name only or lacking entirely. Level 0 (0) No creditable response.	

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Question	Answer	Marks
11	'Physiological drought has a more significant impact than physical drought on the vegetation of hot arid and semi-arid environments.' How far do you agree?	20
	Candidates are free to develop their own approach to the question and responses will vary depending on the example(s) chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. The direction of the response and evaluation made will depend on the approach chosen, and any evaluation is therefore valid, if argued and based on evidence.	
	There should be evaluation of the impact of both types of drought. Some might argue that the impacts of both are similar.	
	Physical drought impacts include: dehydration, wilting and death due to lack of rainfall vegetation may adapt in various ways to obtain as much water as possible, including deep tap roots extensive surface roots salt tolerance dormancy	
	 Physiological drought impacts include: dehydration, wilting and death due to lack of available moisture vegetation may adapt in various ways to reduce water losses to evapotranspiration, including diurnally closed or sunken stomata thick, waxy cuticles storage tissues drought resistance – surviving long periods without water small surface to volume ratio to reduce transpiration losses 	

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Question	Answer	Marks
11	Award marks based on the quality of the response using the marking levels below.	
	Level 4 (16–20) Response thoroughly discusses the differing adaptations to the two drought types. Adaptations should be relevant and reflect the particular challenges of the climate. An effective and sustained evaluation with a sound conclusion. Response is well founded in detailed exemplar knowledge and strong conceptual understanding of the topic. Examples used are appropriate and integrated effectively into the response.	
	Level 3 (11–15) Response discusses the differing adaptations to the two drought types. Adaptations should be relevant but may not always reflect the different climatic challenges. Response is broadly evaluative in character, comprising some explanatory or narrative content and a conclusion. Response develops on a largely secure base of knowledge and understanding with the use of example(s).	
	Level 2 (6–10) Response demonstrates some knowledge and understanding of the differing drought types. Adaptations may not be entirely relevant to the differing climatic challenges. Response is mainly descriptive or explanatory in approach and contains a brief or thinly supported evaluation. Responses without the use of example(s) to support the response will not get above the middle of Level 2 (8 marks).	
	Level 1 (1–5) Response makes a few general points about impacts without the necessary focus on the different drought types and climatic challenges. A descriptive response comprising a few simple points. Knowledge is basic and understanding may be poor and lack relevance to the question set.	
	Level 0 (0) No creditable response.	

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Question	Answer	Marks
12	Assess the view that water action has the most important role in the formation of landforms of hot arid and semi-arid environments.	20
	Candidates are free to develop their own approach to the question and responses will vary depending on the example(s) chosen. Whichever approach is chosen, essays which address the question and support their argument with relevant examples will be credited. The direction of the response and evaluation made will depend on the approach chosen, and any evaluation is therefore valid, if argued and based on evidence. There should be evaluation of the roles of different factors and/or	
	processes. Some might consider past as well as present importance.	
	 Formation of landforms can be influenced by: water action – erosion, transportation and deposition wind action – erosion, transportation and deposition weathering processes – including those involving water and those not geology and vegetation may also be significant factors 	
	Relevant landforms include: sand dune yardang and zuegen wadi alluvial fan pediment	
	pediment zone (bahada, playa, salt lake, inselberg)	

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Question	Answer	Marks
12	Award marks based on the quality of the response using the marking levels below.	
	Level 4 (16–20) Response thoroughly discusses the relative importance of water action compared to other factors/processes. An effective and sustained evaluation with a sound conclusion. Response is well founded in detailed exemplar knowledge and strong conceptual understanding of the topic. Examples used are appropriate and integrated effectively into the response.	
	Level 3 (11–15) Response discusses the relative importance of water action compared to other factors/processes. Responses are likely to make clear explanatory links between processes and landforms. Response is broadly evaluative in character, comprising some explanatory or narrative content and a conclusion. Response develops on a largely secure base of knowledge and understanding with the use of example(s).	
	Level 2 (6–10) Response demonstrates some knowledge and understanding of water action and some other factors/processes, but may not always make clear explanatory links to the landforms. Response is mainly descriptive or explanatory in approach and contains a brief or thinly supported evaluation. Responses without the use of example(s) to support the response will not get above the middle of Level 2 (8 marks).	
	Level 1 (1–5) Response makes a few general points about water action and a limited number of other factors/processes, without the necessary focus on landforms. A descriptive response comprising a few simple points. Knowledge is basic and understanding may be poor and lack relevance to the question set.	
	Level 0 (0) No creditable response.	

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