

# Examiners' Report June 2022

**International GCSE Geography 4GE1 01R** 



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#### Introduction

The first sitting of this specification for Pearson Edexcel International GCSE Geography took place in 2019. Due to the pandemic, there were only small entries for this exam in 2020 and 2021. This Examiner's report is intended to provide an insight into performance on Paper 1: Physical Geography and, in particular, analysing the majority of questions in terms of what went well and where common mistakes and underperformance were evident.

This paper consists of two sections from which candidates answer two 25-mark questions from Section A and one 12-mark question from Section B. This year the total mark for this paper was 62, as there were only questions focused on unfamiliar fieldwork contexts in Section B resulting in less marks awarded in the fieldwork section. However, the length of time for the exam remained the same.

The exam includes multiple-choice questions, short, open response, calculations and extended response questions. The exam command words which are used in the paper are defined in the specification. Each of the questions is mapped to one or more of the Assessment Objectives (AOs).

In **Section A**, River Environments, Coastal Environments and Hazardous Environments are covered. Candidates are required to select two out of three questions.

In **Section B**, candidates choose one out of three fieldwork related questions relating to River Environments, Coastal Environments and Hazardous Environments.

It is important that candidates focus on the requirements for each command word and the Assessment Objective (AO) distribution, particularly for the longer response 8-mark questions, to ensure they access the full range of marks available.

# Question 1 (b)(ii)

In this question, students are required to state one store in the hydrological cycle.

For these low tariff questions, candidates need to ensure that they have a clear understanding of key words and what they relate too.

(ii) State **one** store in the <u>hydrological</u> cycle.

(1)



(ii) State one store in the hydrological cycle.

(1)





Correct store in the hydrological cycle stated.

# Question 1 (c)

This question required candidates to explain one weathering process in a river valley.

A considerable number of candidates were unfamiliar with the difference between erosion and weathering, which led to candidates achieving zero marks.

Candidates who knew weathering processes were often able to achieve the full two marks available.

It is important to ensure students have a clear knowledge of geographical terminology to avoid misinterpreting the question.

(c)	Explain	one	weathering	process i	n	a	river	valley	
-----	---------	-----	------------	-----------	---	---	-------	--------	--

chemical meathering, which occurs when signify midic voin seeps through pourous towns causing them to decay and



This response has given a specific form of weathering and explained how it operates for 2 marks.



Ensure candidates are familiar with geographical terminology to avoid misinterpreting the question.

# (c) Explain one weathering process in a river valley.

(2)

Physical weathering heppens to become of temperature and Irain. A When water freezes that sepe Seeped in me cracks of nodes freezes underpands out ich sprits he rocks apent healing and cooling of orocks frequently can break hom.



This response has given a specific form of weathering and explained how it operates for 2 marks.

#### (c) Explain one weathering process in a river valley.

when

(2)

Hydraulic auton is the sheer force of water distages distodoes marerial into the river



This is an example, seen from a range of candidates, where they give an erosion process rather than a weathering process resulting in 0 marks being awarded.

(c) Explain one weathering process in a river valley.

(2)

erosion when sediment erodes away the sides of a valley vertically. Creating a V-shaped valley.



This candidate has misunderstood the term 'weathering process' and was awarded 0 marks.

# Question 1 (d)

This question required candidates to use Figure 1a, which showed human activities in a drainage basin, to explain two ways human activity can affect water quality.

The credit for these types of 'explain' questions comes from correctly identifying an impact humans have on water quality shown in the resource (AO3) and then developing this to explain its impact (AO2). Candidates were not awarded for just lifting text written in the resource. Candidates often engaged with the resource well and were able to make a specific link to the impact on water quality. A few candidates did not make use of the resource, often stating a human activity that could not be reasonably inferred from the resource for example, using rivers to wash clothes or runoff from factories which are not shown in the resource.

(d) Study Figure 1a in the Resource Booklet.

Explain two ways human activity can affect water quality.

(4)

1 Raw sewage output can affect water quanty as this can cause eutraphication where the phosphates from detergents and nitrates from beces and wrine enter tw river whiches much causes and river is contaminated with toxic substances seem as area & 2 Stormwater carrying godinants and rubbish flow into techseon the rivers and sea will affect water quality as rubbish will contaminate the water and might also allow sea life to mistoken the rubbish as food causing it to choke and die



This response achieves 4 marks.

There is clear reference to the resource and both sections are developed to explain how the human activity affects water quality. (d) Study Figure 1a in the Resource Booklet.

Explain **two** ways human activity can affect water quality.

(4)

1 Sewage, untreated, from urban areas wash into stormwater that flows into rivers waterways, causing water pollution and harming willlife treatment stations can treat (making it chean cleaner) water purify it, and p before sending areas and homes. This reduces the risk of spread. diseases to water-bone borne



This response was awarded 4 marks.

There is specific reference to the resource and a clear explanation for the impact on water quality for both reducing and increasing water quality.

# Question 1 (e)

Candidates were asked to explain one river flood prevention method.

Generally, this question was answered well with many candidates awarded full marks. Candidates are aware of different flood prevention methods and are able to clearly explain how they are able to prevent river flooding. A minority of candidates confused river flood prevention with coastal flood prevention methods in their responses.



This response achieved 3 marks

A soft engineering strategy is identified, with explanation for how this helps to prevent a river flood.

(e) Explain **one** river flood prevention method.

ANSANT Dans and resouring (hard engineering) can be installed to that decide manage whe assistant of water if a staves in a particular area of a river so that during the get large enough to burst its banks and glood on an area.



This response achieves 3 marks.

A specific hard engineering strategy is identified, with further explanation of how this works to prevent river flooding.

# Question 1 (f)

The majority of students were unable to correctly identify the type of mass movement shown in the resource, often confusing the term 'mass movement' with erosion or weathering processes resulting in a high proportion of students not being awarded the one mark.

# Question 1 (g)

This question required candidates to explain the formation of interlocking spurs.

Generally, the majority of candidates were able to score some marks on this question. Candidates who scored 3 or 4 marks tended to use more specific geographical terminology and were able to explain a sequence of events. A few candidates explained the formation of a meander rather than interlocking spurs. In some instances, diagrams were used to good effect to show more clearly what was explained in the written response.

### Question 1 (h)

For these 8-mark extended writing questions, candidates are required to blend their use of the resource (AO4) with their own knowledge and understanding of the issue presented (AO3). Therefore they are not case study questions, rather they require the candidates to apply their geographical understanding to the context shown in the resource.

Many candidates engaged with the resource well and were able to describe one or two factors in detail for the difference in discharge shown in the resource. To access the higher marks, candidates need to go beyond simply describing one or two factors but begin to consider their significance in affecting the river regime. The command word 'analyse' needs to be addressed to achieve full marks and many candidates found this challenging as there was often minimal judgement demonstrated in candidate responses.

#### (h) Study Figure 1c in the Resource Booklet.

Analyse the factors that affect the river regime shown in Figure 1c.

The two hydrographs clearly show varied measurements. In Hydrograph, A. the lag time from the start of the storm to peak over discharge is shorter than the hydrograph from station B, the peak discharge from way higher than B, as nell as quitter to peak. First of all, the soil and rock type of the over banks and over beds affects other regime. In Figure 1C, the over upper cause of there tributary gauged by station A is an urban area, whereas B station gauges mer in a thrested land. In urban areas, the ground is usually made of impermeable concrete, stopping the percolation and infiltration of water to under ground. This causes the surface run off to increase, so rain mater during a Storm reaches the over channel quicker, thus leading to the faster and higher peak in Hydrograph A. Conversely, and since Station B gauges a forested area with no urbanization, the soil allows infiltration of ground water, slaving surface and decreasing runoff into the river channel. Moreover, the vegetation also affects over regime. As stated, Eigure IC shans Station A gauging men from an urban area and B from a forested one. The regetation in near station B allows with mater to be intercepted, which slows the mater run off into over channel. Station A gauges water from an wroan area with little vegetation, so little to no water 3 intercepted by plants, causing quicker and more water to enter the ner channel thus causing its peak in the graph Additionally, Station A is situated near the lower course of the is structed are at the upper course in the

Figure. Lower causes of rivers are not as steep as the upper cause, to shallow flood plans near the esthany of the rivery Thus, faster peak than B



This is a Level 3 – 8 mark response.

The candidate uses the resource throughout their answer and they are able to apply their knowledge of drainage basin processes well to explain several reasons for the differences in discharge shown in the resource. Although, there is not a conclusion at the end, there is enough 'analysis' throughout their response, with the use of terms like 'however', and 'moreover', to reach the Level 3 descriptors.

#### (h) Study Figure 1c in the Resource Booklet.

Analyse the factors that affect the river regime shown in Figure 1c.

if the storm is high this can

couse vivor Plodding, making the viver

to go on a sorthore another direction.

this can couse river exosion river flooding

couse other eminsts to live there

houses / place because it at bodied and

##'Upliveable river that are near the

(8)

houses/place because its at Abodied and
#\*'Untireable: river that are near the

White are seen be plooded and
loss all of its crops and cassi

soil crossion but if the hydrograph

gayging station do there work

perfectly alot of those state

Can be availed.



It is clear that this candidate is unfamiliar with the term 'river regime' in the question and has focused their response around impacts of flooding resulting in 0 marks being awarded.

# Question 2 (b)(ii)

In this question, candidates were required to state a factor that encourages salt marsh ecosystems to develop.

A number of candidates stated factors specific to coral reef ecosystems, for example stating, 'water temperature 27°C'. It is important that candidates are familiar with more than just factors affecting the formation of coral reef ecosystems.

(ii) State one factor that encourages salt marsh ecosystems to develop.





This candidate achieved 0 marks as they have given a factor about coral reef formation rather than salt marsh ecosystem formation.



Ensure candidates are familiar with different types of coastal environments beyond just coral reefs.

(ii) State **one** factor that encourages salt marsh ecosystems to develop.





This candidate achieved 0 marks as they have given a factor more specific to coral reef formation rather than salt marsh formation.

(1)

(ii) State one factor that encourages salt marsh ecosystems to develop.

(1)

one

Factor 15

Saity

water



This response was awarded 1 mark as a correct factor required for salt marsh formation is stated.

# Question 2 (c)

In this question, candidates were required to explain one way mangrove ecosystems are affected by human activity.

Candidates were awarded for giving a reason for their destruction and a second mark for why this was taking place. The majority of candidates were awarded the full two marks on this question.

(c) Expla	in <b>one</b> way r	mangrove ecosystems a	re affected		1
			hight	temperature	(2)
	man gy	ove be no		27 deacreo	se
4	_			will not	
				hem By	
				it temperation	
01	la.	L .		,	(28)
	ion	temperouta	or	contamination	the water



This response misinterprets the question.

It is focused on the factors required for coral reef ecosystems to grow. It is not focused on mangrove ecosystems or human actions – 0 marks.

(c) Explain one way mangrove ecosystems are affected by human activity.

(2)

By deforcettation in order to build rettlements tuck as houses for
residents and hotels for towists. The timber wood (in mangenes)

provides Habability to buildings due to its Hongth. Thus, whomitation and the
need to build tettlements offices mangeness econythms



This response is focused on the question posed – identifying a cause of the destruction (deforestation) and reason (for timber) for this taking place.

2 marks.

#### Question 2 (d)

This question required candidates to use Figure 2a, which showed information about the uses of coral reefs, to explain two reasons why there may be conflict over the use of coral reef ecosystems.

The credit for these type of 'explain' questions comes from correctly identifying a possible conflict from the information given in the resource (AO3) and then developing this to explain why this causes conflict (AO2). Candidates were not awarded for just lifting information written in the resource.

Candidates, on the whole, understood the idea of conflict and used examples of how coral reefs are used shown in the resource. The better responses explained a potential conflict between two interested parties. Some candidates implied conflict between users without directly naming different groups of people. If done in detail, this was enough to achieve four marks. A few candidates were less clear on the idea of conflict and just stated advantages of having coral reef ecosystems which was not what the question required.

(d) Study Figure 2a in the Resource Booklet.

Explain **two** reasons why there may be conflict over the use of coral reef ecosystems.

(4)

1 As a result of caral red conjudius providing a jest blookivenity, it provides
a large greating and variety of fish. Thus, cord red conjudius provide food production
which helps booth the economy and provide a torrie of income for the country. Yet,

there is conflict as the biodiumly is headed to provide food a income but also to attract trusts which
also provide norm.

2 Coral reds are method for medicine development. House are being damaged a affected by

human actually resulting in lost of reals thus makes harrords more prove as reals

provide that a probability within and an are also and corns of the three Yet. Head

are needed to provide medicine which can are obscured bles consider.



This candidate uses the resource in their answer and, although they don't always give specific groups of people who would be in conflict, there is enough detail to imply conflict in both reasons.

In the first reason, this is that 'there is high biodiversity which provides a food source (1) but biodiversity is reduced by fishing and tourists (1) causing a conflict.

In the second reason 'reefs are needed for medicine which causes damage (1) which results in the loss of reefs making an area more hazard prone (1).

4 marks

#### (d) Study Figure 2a in the Resource Booklet.

Explain **two** reasons why there may be conflict over the use of coral reef ecosystems.

4											(4	)
1 The	Se	Mai	1 bc	Con	refer	between	to	wishs	and	CONG	-vahon	ISH ,
this	13	beca	we.	Lhile	Low	does ,	ney	wahl	Ło	dhe	or	Sum
around	\	coral	res	erew,	Con	seventand	43 (	would	AM	t wo	nt to	prevu
His	£\$	reeps	Can	be	damage	d and	disrup	Led	by h	When	activi	Ly.
2 Ther	e	may	Ь	v (ø	plids	believe	n re	search.	d .	and	C'Shon	en as
over	July	V	nay	lead	Loa	redness	1 0	Robby	V n	amber	op	Samples
Cor	the	· r	rsearch	Mada	g 10	dustry	Le	, <i>L</i>	cs.L	will		
					V	1						



This candidate has clearly used the information in the resource to suggest two different groups of people who would be in conflict with each other over use of the coral reef ecosystem.

4 marks

# Question 2 (e)

Candidates were required to explain the difference between constructive and destructive waves.

The majority of candidates achieved full marks clearly explaining the differences between the two types of waves. Where candidates did not achieve three marks, it was often because they did not mention the impact on beach.

(e) Explain the difference between constructive and destructive waves.

Constructive waves contain a strong suach, a backwash where as destructive waves strong backwash lonstruct frequent and provide to the The more sneguent



This response was awarded 3 marks giving a range of differences between constructive and destructive waves.

(3)

#### (e) Explain the difference between constructive and destructive waves.

the segment than the sea.

(3)



This response was awarded 3 marks giving a range of differences between constructive and destructive waves.

# Question 2 (f)

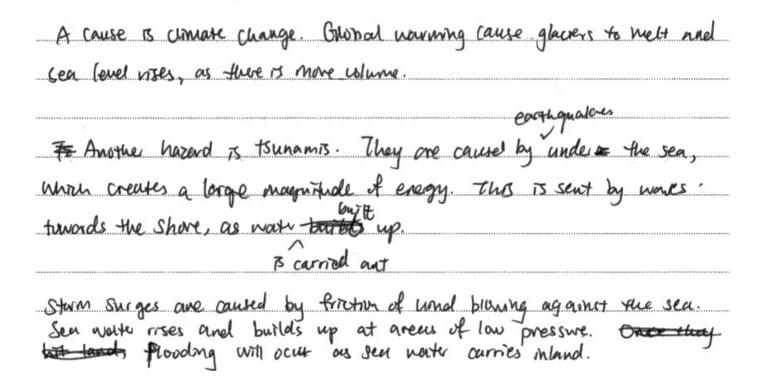
The majority of candidates correctly identified the process shown in the resource correctly.

# Question 2 (g)

This question required candidates to explain the causes of coastal flooding. Generally, the majority of candidates were able to score some marks on this question. Candidates who scored 4 marks either explained one cause in detail or two correct causes of coastal flooding.

Candidates need to be clear on the difference between causes of sea level rise and causes of coastal flooding. Often candidates only explained the process of sea level rise limiting their responses. A few candidates explained the causes of meteorological flooding rather than coastal flooding.

(g)	Explain the causes of coastal flooding.	
		(4)





This is an example of a response which was awarded 4 marks for explaining two causes.

They correctly explain that a tsunami caused by an underwater earthquake (1) which is a large magnitude wave that builds up as it approaches the shore (1). Storm surges are caused by friction of the wind (1) causing sea water to rise up in areas of low pressure (1).

(g) Explain the causes of coastal flooding.

(4)

Coast	al D	looding	/s p	eneally	cansid	by	Storm	Suges
Slo-n	Suges	66cm	When	ofesho	re Sta	oms V	form	larger
Phan	hshal	Loves	due 1	to their	- Stron	50 l	inds.	These
LAUU	build	mp m	la law	nob1	Ulen	L'L U	e Car	stice
ANSAN	geneally	breaking	lhon	yk any	Ceastel	decence	) du	lo the
213E	and p	breaking	1 cla	din He	, acc.	new	lle	coast.



This is an example of a response which was awarded 4 marks for one well explained cause of coastal flooding.

Climate change causes many of the like experient to melt in places like the artic. Climate change is a think layer of gas called the Ocean layer that temps the host air between it and also the earth making the natural lebels vision. Coache by melting the lie is it.



A number of candidates only explained the causes for rising sea levels rather than a cause of coastal flooding which was not the focus of this question.

0 marks

# Question 2 (h)

These 8-mark extended writing questions candidates are required to blend their use of the resource (AO4) with their own knowledge and understanding of the issue presented (AO3). Therefore, they are not case study questions, rather they require the candidates to apply their geographical understanding to the context shown in the resource.

In this instance, candidates were required to analyse the advantages and disadvantages of the coastal management plans shown. Candidates engaged with the resource well, using the examples of coastal management shown to frame their responses. However, a significant number of responses just described the pros and cons of each type of management shown without applying it to why it is best for the specific locations, with minimal judgement.

The command word 'analyse' needs to be addressed to achieve full marks and many candidates found this challenging as there was often minimal judgement demonstrated in candidate responses.

(h) Study Figure 2c in the Resource Booklet.

Analyse the advantages and disadvantages of the coastal management plan shown.

(8)

Hard engineering helps to reduce move erosive power and stops from flooding inland According to figure 2c, rock groune in Espinho traps eroded material, avoid sound bloming inland. Helps to trap beach sediment that is being transported by longshore drift. According to the sketch shown hard engineering such as groynes and sea walls are being chosen to use the most frequently. 3 areas that are coloured in orange are using hard engineering. This includes Porto, Espinho and Mira's coastlines. Although they reduce wave power in great benefit, they will also disfigure the natural beauty of the coastline Examples such as sea walls, gabions and rip raps cannot keep pace with Sea level rise which will distigure the natural beauty of the coastline. This will not attract more tourists, which reduces the population of tourists arriving in the coastal location. Furthermore, it is also harder to maintain as it requires a constant management as and is more expensive. Therefore, even though hard engineering such as graynes and sea walls help to trap eroded material and reduce wave erosive power, it also will distigate the natural appearance of the coastline, resulting in loss of tourists and law income from beaches Soft engineering can keep pace with sea level rise and is cheaper and more environmentally Priendly to use According to Pigure 2c, soft engineering such as beach replenishment is used in the north of Espinho. However, it is relatively less used along the coastline in contrast to Hard Engineering as only places such as near the river powe and Borra which is coloured in blue. Blue sepresents beach replenishment and red represents beach replenishment and sand anne Beach replenishment is meant by dumping sand and shingles onto

areas to replace eroded material. It is cheaper and easier to maintain, but requires more time to process it. It is more environmentally friendly but will lose towists when in process of dumping as it spoils the natural beauty of the coastline. Sound dures reduces have and erosive power to reduce chance of flooding. Therefore, soft engineerings are a good choice to use as it is a cheaper and more beautiful to view



This candidate shows frequent use of the resource throughout the answer and goes beyond just describing simple pros and cons of the strategies to clearly analyse the combined strategies used at the location.

Although they do not have a conclusion at the end, they use terms such as 'however', 'great benefit' and 'therefore' throughout their response to demonstrate their argument and judgement.

This response was awarded Level 3 – 8 marks

(h) Study Figure 2c in the Resource Booklet.

Analyse the advantages and disadvantages of the coastal management plan shown.

(8)

In figure 21, groupes, a form of hard engineering or snown to be used across the majority of the coastine. Groyres collect sodiment at one end are to longishere diff occurry and moung sediment acrossive seach. this allows a wide beach, which could bring in forisms in oreas such as Mira and Espinho. However, on the other side of the groupse, the beach is stanted stanted of sediment, which may had to woner approaching the coast closer and increased exosion. Another hard engineering me mad used is sea walls, these as effective at and reflecting absorbing more energy, which decrases coastal assion. honeer as then are recolled for long streches of Coast, around 72 km in Mira and Go km across Espano ad Esmaiza it may be exponsive to boild. In oreas such as Barrer and Torreira, soft engineering over as black replenishment is used. ins is a good method as it looks natural, have however sond needs to be regularly repumped into the beach as erosions and longsman drift will deposit this material elsewhere mating it time consuming and perhaps aeffective

Norm of Espinno, beach replenisment and sand during or both used as forms of Soft engineering. Sand dures ar coastal ecosystems where o which occur when prevailing mind is onsnove, so send aromorbites around on Object. These can on get destroyed easily, making them ineffective. Ornall. (Total for Question 2 = 25 marks) be use of nord enginemy along bess coast perhaps mue effective.



This candidate gives a brief concluding statement at the end of their answer and makes clear reference to the strategies used at each location.

There are several pros and cons of the different strategies being used with simple judgement as to whether this is good/bad for the location.

Some parts of the response are quite descriptive and the AO3 is slightly weaker in this response meaning it was awarded Level 3 – 7 marks.

# Question 3 (b)(ii)

Most candidates were able to score a mark on this question being able to state one factor that can affect how much damage an earthquake can cause.

(ii) State one factor that can affect how much damage an earthquake can cause.

(1)

How much preparation prior the continguate



There were a wide range of factors given by candidates.

This response was awarded the mark having stated a correct factor – level of preparation.

(ii) State one factor that can affect how much damage an earthquake can cause.

(1)







This candidate has given an impact of an earthquake rather than a factor that affects the level of damage caused.

0 marks

(ii) State one factor that can affect how much damage an earthquake can cause.

(1)





Correct factor stated – 1 mark.

(ii) State one factor that can affect how much damage an earthquake can cause.

en area is whom or rural



Correct factor stated – 1 mark.

### Question 3 (c)

For this question, candidates were required to identify a correct factor that affects the formation of tropical cyclones (AO1) and explain their distribution (AO2).

Most candidates were clear on the factors required for tropical cyclones to form. However, a number of candidates were unfamiliar with the demands of the term 'distribution' and therefore did not achieve the second mark.

(c) Explain one factor that affects the distribution of tropical cyclones.

Temperature - Tropical cyclones need water that has a temperature around (23°c - 27°c) degrees, and it needs warm air, to form. They are found only near the equator.

(2)



This candidate gives a specific factor and links this to where they are most commonly found to fully meet the demands of a distribution question.

2 marks

(c) Explain one factor that affects the distribution of tropical cyclones.

When get tropical cyclons it topp happend Inland floodings.
and strong wind then houses, trees one fly away then destroyed.



This response was awarded 0 marks – as they have misinterpreted the question and given impacts a tropical cyclone may cause.

	(2)
Cyclores need water of orang 2700 to form	
	7
which is usually around the expector	

(c) Explain **one** factor that affects the distribution of tropical cyclones.



This candidate gives a specific factor and links this to where they are most commonly found to fully meet the demands of a distribution question.

2 marks

(c) Explain one factor that affects the distribution of tropical cyclones.

bey from whome there is worn mount at as as a surface temperatives of be at least 27°C so that the air above



This candidate gives a specific factor that causes the formation of a tropical cyclone, but they do not meet the 'distribution' requirement in the question as they have not mentioned where they are formed.

1 mark

### Question 3 (d)

This question required candidates to use Figure 3a, which showed information for people living in areas at risk of tropical cyclones in the USA, to explain two reasons why people continue to live in areas at risk of tropical cyclones.

The credit for these types of 'explain' questions comes from correctly identifying a possible reason from the information given in the resource (AO3) and then developing this to explain why people live in these areas (AO2). Candidates need to ensure they have used the resource in their response. Often, candidates gave reasons that could not be plausibly inferred from the resource provided. Most often these centred around the idea of people lacking education and knowledge or to be close to family and jobs, neither of which could not be inferred from the resource. The better responses made clear links to the resource and developed these reasons to explain why it makes people willing to live in these areas.

(d) Study Figure 3a in the Resource Booklet.

Explain **two** reasons why people continue to live in areas at risk of tropical cyclones.

Education on drills and persparation and emergency

appear to be established in the figure which

can morease confidence in safety of the locals

especially if the cyclones occur infrequently.

The figure 18 for the USA and since the USA is a

dueloped country, it will have building regulations

and morraged structual support such as stills for

constal bonns. Information from the figure of Mand Hooding sporads

awareness and morrages production benefit on bonns.



This response achieved 4 marks – giving two correct reasons why people continue to live in areas at risk which are specific to the information shown in the resource.



Ensure candidates only give reasons that can be inferred from the resource provided.

(d) Study Figure 3a in the Resource Booklet.

Explain two reasons why people continue to live in areas at risk of tropical cyclones.

1 People Feel prepared to face the threat of a tropical cyclone and are not afraid for their sakely 2 reople have plans which include photo documentation of valuables so this means they are confident they will be compensated for any losses



This response achieved 4 marks – giving two correct reasons why people continue to live in areas at risk which are specific to the information shown in the resource.

(d) Study Figure 3a in the Resource Booklet.

Explain **two** reasons why people continue to live in areas at risk of tropical cyclones.

(4)

1 they may not be earnoused enough on what to
de anormay not undest and now to make a
plan to protect themsels
2 They may have constant warning about asciences
ca the and ou come the so have the
minaset that they were leave when it atwas
happens as it would be expense to move for no reason.



This candidate has not given reasons which can be inferred from the resource provided and therefore was awarded 0 marks.

(d) Study Figure 3a in the Resource Booklet.

Explain two reasons why people continue to live in areas at risk of tropical cyclones.

(4)

1 Hurisanes bring many hozards to WA constlines and inland areas, included Storm surge along the coast, inland Flooding due to heavy mainfall, boromades Strong wind, rip owent and large was 2 when Faced with a omergency and ensure everyone in your home is prepared For the next Shim.



This response has focused on the impacts of a tropical cyclone in the first part and in the second part of the answer, it is too vague by simply stating 'people should be prepared' which is not enough to award the AO3 credit.

### Question 3 (e)

For this question, candidates were required to identify a suitable way hazard mapping is used and explain why this helps to prepare for an earthquake event. In this question, candidates are required to focus on one idea and develop it in detail to access the 3 marks available.

The majority of candidates achieved full marks clearly explaining the role hazard mapping has on being able to help people prepare. There were a few candidates who were unclear on what hazard mapping is and, as a result, they explained a completely different preparation strategy.

(e) Explain **one** way hazard mapping can help preparation for an earthquake event.

(3)

Hazard mapping looks at historic events and determines which areas are most likely to be effected by an earthquate. With the information, the government can provide velief and and educate people about evacution plans. They can also improve the buildings design to make it more earthquake - proof so less collapse.



This candidate was awarded 3 marks as they understand what hazard mapping is and how it can help with preparing for an earthquake.

(e) Explain one way hazard mapping can help preparation for an earthquake event.

(3)

They can locate the dangerous areas and where candsvides can occurs Meaning they can tell the people how, where and why to evacuate this means that less people are lively to die and to prepare their homes for less damage.



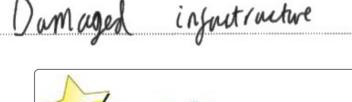
This candidate was awarded 3 marks as they understand what hazard mapping is and how it can help with preparing for an earthquake.

#### Question 3 (f)

The majority of candidates correctly identified a potential long-term impact of an earthquake.

(f) Study Figure 3b in the Resource Booklet.

Suggest a long-term impact of the hazard shown.

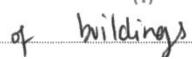


This candidate states a correct potential long-term impact based on the resource provided.

(f) Study Figure 3b in the Resource Booklet.

Suggest a long-term impact of the hazard shown.

Home lessness due to distriction of



(buildings, roads)

(1)



This candidate states a correct potential long-term impact based on the resource provided.

## Question 3 (g)

This question required candidates to explain how earthquakes are formed at a destructive plate boundary.

Generally, the majority of candidates were able to score some marks on this question. Candidates who scored 3 or 4 marks tended to use more specific geographical terminology and were able to explain a sequence of events. However, some candidates confused the type of plate boundary, writing about conservative plate boundary which was not credited.

A few candidates supported their written responses with diagrams which often showed the direction of plate movement which was useful as this was often missed at the start of a lot of written answers.

(g) Explain why earthquakes occur at destructive plate margins. (4)

At testructive plate boundaries, on oceanic plate is subjected under moves and continental plate move towards each other; the oceanic plate is subducted under because it's lenser . If then grinds against the continental plate (and melts in the mantle), building up high levels of pressure until the portion of the plate cracks or snags violently releasing large volumes of energy in the form of shockwaves.



This candidate explains the full sequence, including the correct geographical terminology, to explain why earthquakes occur at a destructive plate boundary.

### Question 3 (h)

These 8-mark extended writing questions candidates are required to blend their use of the resource (AO4) with their own knowledge and understanding of the issue presented (AO3). Therefore they are not case study questions, rather they require the candidates to apply their geographical understanding to the context shown in the resource.

In this instance, candidates were required to analyse the reasons for the different impacts of the two volcanic eruptions shown in the resource. The majority of candidates engaged with the resource and used this throughout their answer but mainly only described the different impacts with only basic reasons provided. In the better responses candidates made simple judgements on which area suffered most, explaining why this was the case. A very small number of candidates just lifted the text from the resource and this was not given credit.

The command word 'analyse' needs to be addressed to achieve full marks and many candidates found this challenging as there was often minimal judgement demonstrated in candidate responses.

(h) Study Figure 3c in the Resource Booklet.

Analyse reasons for the different impacts of the two volcanic eruptions shown.

(8)

As Figure 30 shows, the volconic eroption in Indonesia is happen that at the middle of two islands. The temponic it ca could could it is the one killed and injured most of the people. It is uncommon for inducing to have Tsunami, and it is pooner, with less expanianced. Therefore less people are educated to han to creat & Tunani. It had building that is not designed for nature Lozard. And du to it is cause by volconic eraption under sea, he must see predicted the present to Transmi so he marring system. It is also due to high population donsity in Indonesia so it damage loss of hours. Lack of protestion such as hard enginearing - sea mall one soil smile due to unexpected and too expansive. However it is a on sea so textless Ash have dange people. As Figure 30 also shows, the # volcans in troban volcan de frego couse much less death and ighty. This is because firstly it is in fact forst and far any for from city, therefore less dense of population, leading to less death by cop compose of building and houses. It is on land so the local government probability probably have predictes predict it and set protection and prevention before hand such as remove people in high risk area, education and practice before it actually happened. Another thing is that is I far away from the ocean so it want a coquel & tsurani, which damage move people and building. However, it is on land so it cause Ash and pyrodostic flow damaging a halding, tome, and crops or road. This radice the speed of finical support from other country or energy or reasure team from local government. And it is proved by on Figure Ic show the international airport is blocked. However, the this pope pyroclastic flow and and ash would cause but or lung problem, as it is close to to tome and villages.



This candidate was awarded Level 3 – 7 marks.

There is frequent use of the resource throughout their answer and they begin to analyse the different impacts by stating that it was the tsunami which caused most of the deaths in Indonesia and less deaths in Guatemala 'firstly' because the volcano is located in a more rural area. There is also use of terminology like 'however' in their response to show enough judgement and argument, with enough range to meet the Level 3 descriptors.

## (h) Study Figure 3c in the Resource Booklet.

Analyse reasons for the different impacts of the two volcanic eruptions shown.

(8)
a volcano erupho on
Figure 30 shows the impects of a highly durlinged country (HIE)
and a sen durchoped comby (L10)
Thurse, the Indonesia of votemals english resulted in it were injuris
and a higher obtath told in component to the bustomala volcane origin.
Doth countries sufficient from danger to buildings, houses, whose as a result
country or half in both economies. Indones to has occur to the rea, thus
the volcanor eruptom council dannes to 510 thips as well as it a bondard
surrounded by the Jan's from in funtually, it is loved lasted that the
pyrachulu Plano bladed hangant toute counge a duloug in energones trupping
and aid support. Whous hadronen and a surgener was able to be tent.
The clony of the expect proceded any shalls with energing and and english
bury sent. 4000 were avanualed numbers deaths in company's hadring as people
warent arounted. Figure 3c Humo Hut the volume authority is holosoog
a could an an ishud of Anah Krahatan whose accept to the in.
Where brahmed to a growy ( high level of urbanature and high land of
bullings) in Valence of Funge, married to the at capital
Deads report from volume explorers courses breating difficultures due to the own
The purelishe this distinged vegetaling course crops growth and production to
decline country a decline in the economy. Both suffered from homelmen and
ununglament os a rullt of danager & burneser and homes Edmanter
was hatted due to the durings of whools and unmaker spread of chronics ofher
to the lack of supplies dry to blocked roads a freedomby coming deaths.
Hard thus evacuous was limited in components becalenated which DES left duty the home wanted the prostors of the viscous actually.

Thus, ohie to its perpanation of arounding butter hand in treatments, regular in ten imports of the volcame engths as well as the & to population. Thus as they could exacuste people, but deaths were caused no comparison to modernous Yet booth recovered inevitable danger is its patternets and buildings what him doubtes for Greaturala due to preparay and how populated their histories ( want).



This candidate was awarded Level 3 – 8 marks.

Although they work through the different impacts seen in each location first, they make a clear judgement at the beginning of their answer with this being due to differences in the level of development between the two locations.

The end of their response is a conclusion which makes a judgement about the significance of both physical and human factors in causing the differences shown in the two locations.

(h) Study Figure 3c in the Resource Booklet.

	(8)
Anak kakaban Jadonesia 2018:	
. Triggered a bunami . 14,059 people injured	
. 14,059 people intured	*****
. 429 deaths	
. Destroyed 2, 752 houses and 5/w Ships	
· Eryption reduced the volcanis height From 338 to lown	
Volcan de Frego Guatemala 2018:	
. 190 deaths	***************************************
- 4,000 people enacuated	***************************************
. pyroclastic Flows hit Several towns and villages and blacked trans	
. Asha reached the capital, Gustemala city, and absed the	

Analyse reasons for the different impacts of the two volcanic eruptions shown.



This response was awarded 0 marks as the candidate directly lifts the bullet points shown in the resource with no additional comment.

air port.

### Question 4 (a)(ii)

Please note that the comments made on Q04 also apply to Q05 and Q06 as the questions are in parallel and the resources very similar.

Section B had reduced number of marks in this series and as a result fewer questions. There were only questions with unfamiliar fieldwork contexts. There was information provided on the fieldwork context in the exam paper and additional resources in the resource booklet which candidates were required to use.

For this question, candidates needed to state one way maps could be used to support their enquiry. This could be at any stage of the geographical enquiry process and most candidates achieved the mark.

(II) State	e <b>one</b> way i	maps cou	lia be usea to su	pport the	enquiry.		(1)
Find o	ut ar	ere	the upp	er, m	oldle and	lones	,
cource	of t	he	river is	loce	nted.		
1 r	rrect poter		us nents of a map for the s				(1
Maps	could	be	annotated	fo	hegwlight	tue	
			σF				
		a the D	luc .				

1 mark

## Question 4 (b)(i)

This question was answered quite well with many candidates gaining 2 marks. Where candidates scored only 1 mark, it was due to them not writing the final answer to one decimal place.

- (b) Study Figure 4b which shows some data collected about river velocity.
  - (i) Calculate the mean velocity.

Give your answer to one decimal place.

You must show all your workings in the space below.

1.2 m/s

(2)



This candidate has not identified all 5 figures required for this calculation and as such has not divided by 5 which means they have not shown the correct method for working out the mean based on the data provided.

- (b) Study Figure 4b which shows some data collected about river velocity.
  - (i) Calculate the mean velocity.

Give your answer to one decimal place.

You must show all your workings in the space below.

(2)



2 marks – correct working and answer rounded to 1 decimal place.

## Question 4 (b)(ii)

This question was answered well with the vast majority of candidates able to identify a correct piece of equipment.

(ii) State one piece of equipment that could be used to measure river velocity.

(1)

Measuring tope



1 mark – correct piece of equipment stated for measuring river velocity.

(ii) State one piece of equipment that could be used to measure river velocity.

(1)





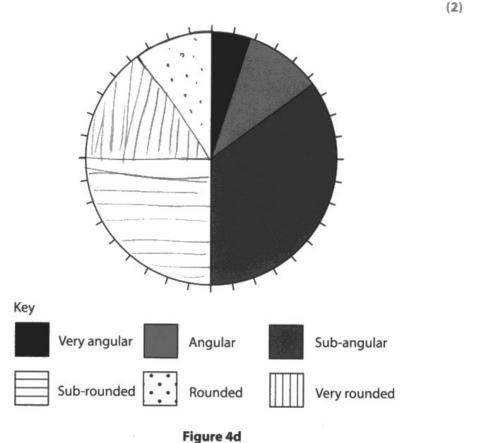
1 mark – correct piece of equipment stated for measuring river velocity.

### Question 4 (c)(i)

A significant number of candidates were able to achieve two marks, correctly proportioning their segments and shading them to fit the key provided.

Some candidates found the demands of this question a challenge with either the proportioning of the segments or correctly following the key or with both elements.

> (c) (i) Complete Figure 4d below, using data highlighted in Figure 4c in the Resource Booklet.



Pie chart showing pebble shape



This candidate has the 3 proportions plotted correctly (1) but their shading is incorrect as 'rounded' should be the second biggest segment, not the smallest.

1 mark

(c) (i) Complete Figure 4d below, using data highlighted in Figure 4c in the Resource Booklet.

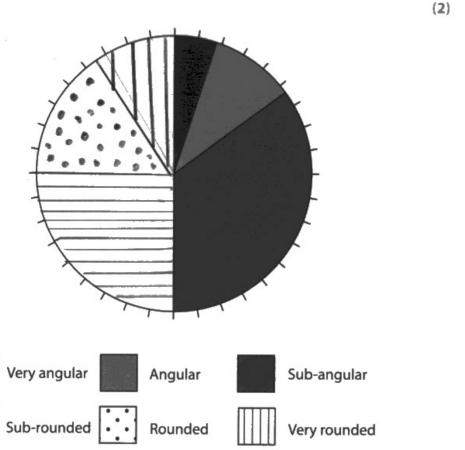


Figure 4d
Pie chart showing pebble shape



Key

2 marks – correctly proportioned segments (1) and correct shading (1).

59 International GCSE Geography 4GE1 01R

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(c) (i) Complete Figure 4d below, using data highlighted in Figure 4c in the Resource Booklet.

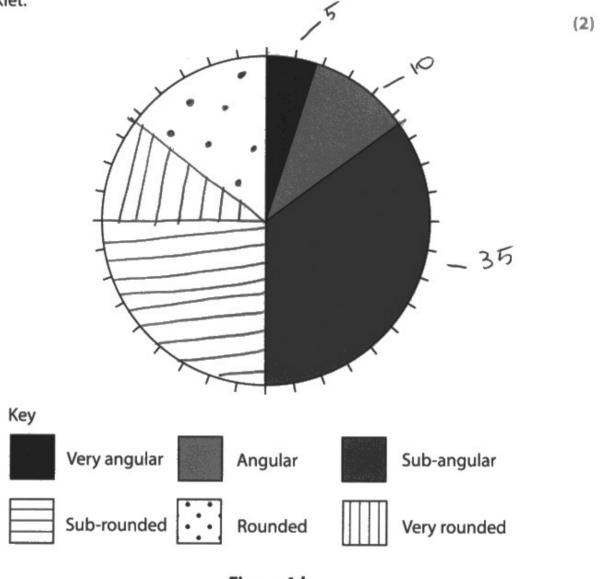


Figure 4d Pie chart showing pebble shape



2 marks – correctly proportioned segments (1) and correct shading (1). The segments could be plotted in any order as long as they were correctly proportioned and shaded.

## Question 4 (c)(ii)

Candidates were required to identify two ways the students could have improved the reliability of the data collected. It is important to ensure candidates are familiar with the difference between accuracy and reliability in the context of a geographical enquiry. A considerable number of candidates made suggestions linked to accuracy/validity rather than reliability.

(ii) Identify **two** ways the students could have improved the reliability of the data collected.

(2

1 check with other Standant who have done it before from

2 Repent 3 times and take an average



Two correct ways to increase reliability identified.

2 marks



Ensure candidates know the difference between reliability and accuracy in a geographical enquiry context.

	data collected.	(2)
1	sed more pebbles than just 100	(2)
	me it multiple times (maybe different days) to more accurate result.	get
	Results Plus Examiner Comments Two correct ways to improve reliability identified.  2 marks	
	(ii) Identify <b>two</b> ways the students could have improved the <u>reliability of the</u> data collected.	(2)
1	by measuring the size of sedime instead of the publishe shape	n4
2	Should have make true different pre	.cher
	Results Plus Examiner Comments	

This candidate has misunderstood the term reliability in the question and has not given any correct ways to improve reliability.

### Question 4 (d)

In this question, the candidates were required to explain one other fieldwork technique the students could have used in their enquiry. In this question, candidates are required to focus on one idea and develop it in detail to access the 3 marks available.

A number of candidates found it a challenge to ensure they were aware of all the methods used, which were shown in the resources. This meant a significant proportion of candidates wrote about a method already mentioned resulting in zero marks being awarded. Some candidates are unfamiliar with the term 'fieldwork technique' and, as a result, explained a sampling strategy instead, also resulting in zero marks being awarded. The better responses explained the how or why their chosen fieldwork technique would support the enquiry.

(d) Explain one other fieldwork technique the students could have used to explore river channel changes.

The students bould have used a ranging rody measuring tape to find out the cross-section of regular increases, and the nice. This can be close by within width (an) x depth (an) = cross-sections to measure of the contract o



This response explains in detail how to measure the cross-section (wetted perimeter) of the river channel.

(d) Explain one other fieldwork technique the students could have used to explore river channel changes.

(3) Hosher fieldwork technique to investigate river channel changes is by measuring the width of the river using a flexionable measuring tages. They need to stretch the tape from one bank to the the width of the river precisely. Mehr sure to that the tape is not saggingly, as 17'11 affect the results. (Total for Question 4 = 12 marks) make sure to do that for all sites, with repeats, and find average for of width for each site.



This candidate explains in detail how they would measure the width of the river channel. However, this was a technique mentioned in Figure 4a and therefore can not be credited.

(d) Explain one other fieldwork technique the students could have used to explore river channel changes.

(3)

The students could have easyl streetisfied sampling. It would invoke prior research into the shape of the publics. This would allow students to relevant choose the ordinar by would interest intend to display.



This was a fairly common error where candidates misinterpret the term 'fieldwork technique' and explain a sampling strategy instead.

#### Question 5 (a)(ii)

Please note that the comments made on Q05 also apply to Q04 and Q06 as the questions are in parallel and the resources very similar.

Section B had reduced number of marks in this series and as a result fewer questions. There were only questions with unfamiliar fieldwork contexts. There was information provided on the fieldwork context in the exam paper and additional resources in the resource booklet which candidates were required to use.

For this question, candidates needed to state one way maps could be used to support their enquiry. This could be at any stage of the geographical enquiry process and most candidates achieved the mark.

(ii) State one way maps could be used to support the enquiry.

(1)

ve gitterent manadement reomidinations

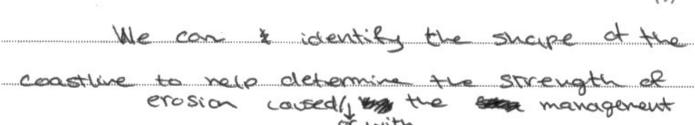


Correct potential use of a map for the coastal enquiry described.

1 mark

(ii) State **one** way maps could be used to support the enquiry.

(1)





Correct potential use of a map for the coastal enquiry described.

1 mark

# Question 5 (b)(i)

This question was answered quite well with many candidates gaining 2 marks. Where candidates scored only 1 mark, it was due to them not writing the final answer to one decimal place.

- (b) Study Figure 5b which shows some data about beach sediment.
  - (i) Calculate the mean size of the pebbles in centimetres.

Give your answer to one decimal place.

You must show all your workings in the space below.

$$8.1 + 6.5 + 7.6 + 12.3 + 8.6 = 93.1 = 8.62$$

$$= 8.62$$

$$= 8.62$$

$$= 8.62$$

8.62 cm



2 marks – correct working and answer rounded to 1 decimal place.

- (b) Study Figure 5b which shows some data about beach sediment.
  - (i) Calculate the mean size of the pebbles in centimetres.

Give your answer to one decimal place.

You must show all your workings in the space below.

$$8.1 + 6.5 + 7.6 + 12.3 + 8.6 = 43.1$$

$$43.1 \div 5 = 8.62$$
(2)

8.62 cm



1 mark – correct calculation but answer is not given to 1 decimal place.

## Question 5 (b)(ii)

This question was answered well with the vast majority of candidates able to identify a correct piece of equipment.

(ii) State one piece of equipment that could be used to measure the pebbles.

(1)

# Caliper



1 mark – correct piece of equipment stated for measuring pebbles.

(ii) State one piece of equipment that could be used to measure the pebbles.

(1)





1 mark – correct piece of equipment stated for measuring pebbles.

### Question 5 (c)(i)

A significant number of candidates were able to achieve two marks, correctly proportioning their segments and shading them to fit the key provided. Some candidates found the demands of this question a challenge with either the proportioning of the segments or correctly following the key or with both elements.

(c) (i) Complete Figure 5d below, using data highlighted in Figure 5c in the Resource Booklet.

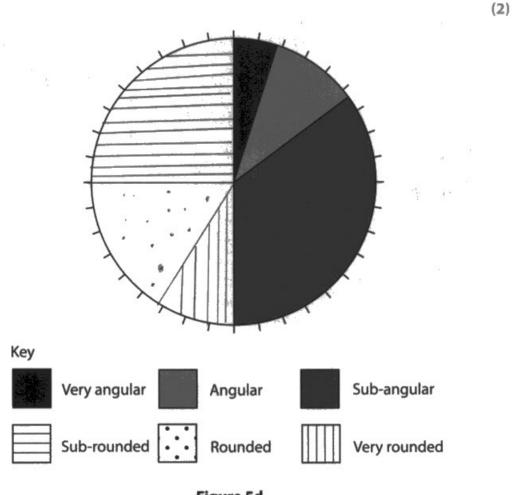


Figure 5d Pie chart showing pebble shape



2 marks – correctly proportioned segments (1) and correct shading (1). The segments could be plotted in any order as long as they were correctly proportioned and shaded.

(c) (i) Complete Figure 5d below, using data highlighted in Figure 5c in the Resource Booklet.



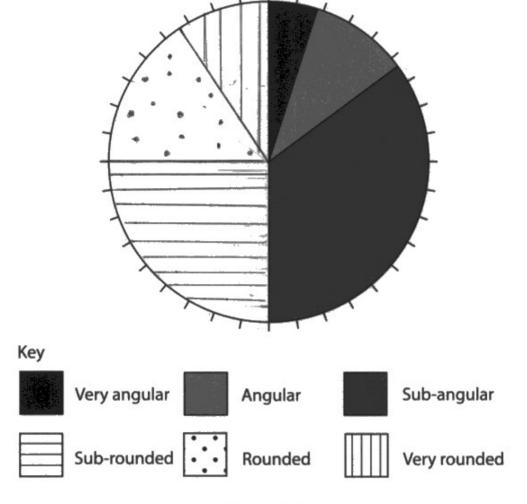


Figure 5d
Pie chart showing pebble shape



2 marks – correctly proportioned segments (1) and correct shading (1).

### Question 5 (c)(ii)

Candidates were required to identify two ways the students could have improved the reliability of the data collected. It is important to ensure candidates are familiar with the difference between accuracy and reliability in the context of a geographical enquiry. A considerable number of candidates made suggestions linked to accuracy/validity rather than reliability.

(ii) Identify two ways the students could have improved the reliability of the data collected.

Measure (2)

1 More times and get average to reduce wrong.

2 In crease sample size, get move openholes and prepers measuring to get average.



This response identifies two correct ways reliability could be improved.

2 marks



Ensure candidates are aware of the difference between reliability and accuracy in a geographical enquiry context.

(ii) Identify <b>two</b> ways the students could have improved the reliability of the data collected.	
1 Repeat, using more samples.	***************************************
2 Let more too than one person judge the pebble, 50 da	
Results Plus Examiner Comments	
This response identifies two correct ways reliability could be improved.	
2 marks	
<ul><li>(ii) Identify two ways the students could have improved the reliability of the data collected.</li><li>(2)</li></ul>	
1 Photographs; photographs would have given a visue	.1
experience of the public	
2 Distance From the coostine where each type of	
pebble was found.	
Results Plus Examiner Comments	
This candidate has misunderstood the term reliability in the question and has not identified any correct ways reliability could be improved.	

# Question 5 (d)

In this question, the candidates were required to explain one other fieldwork technique the students could have used in their enquiry. In this question candidates are required to focus on one idea and develop it in detail to access the 3 marks available.

A number of candidates found it a challenge to ensure they were aware of all the methods used, which were shown in the resources. This meant a significant proportion of candidates wrote about a method already mentioned resulting in zero marks being awarded. Some candidates are unfamiliar with the term 'fieldwork technique' and as a result explained a sampling strategy instead, also resulting in zero marks being awarded. The better responses explained the how or why their chosen fieldwork technique would support the enquiry.

(d) Explain one other fieldwork technique the students could have used to explore the impact of coastal management (3) Beach gradient - Place a ranging pole at every gradient and use to measure the changes in beach gradient, repeat 3 metres (systematic sampling) changes along the coast



This candidate explains how they would measure beach gradient. However, this was a technique mentioned in Figure 5a (called beach profile in the resource) and therefore can not be credited.

(d) Explain one other fieldwork technique the students could have used to explore the impact of coastal management.

(3)

One other fieldwork technique would be to use systematic and vandom sampling to get a varied data do collection so they that they can support they their enquiry with a lot of information and evidence, and They could have also gone to another site.



This was a fairly common error where candidates misinterpret the term 'fieldwork technique' and explain a sampling strategy instead.

0 marks

(d) Explain one other fieldwork technique the students could have used to explore the impact of coastal management.

(3)

anesstionaires	50 people	living in an	area
quesstionaires (an provide	a detail less	sonse to how	· Coastal
managment he	ast affected	the coasi	
years providing	a valitative	data.	######################################
	V ************************************		



This response explains the use of questionnaires of local people and links to the enquiry described.

(d) Explain **one other** fieldwork technique the students could have used to explore the impact of coastal management.

taking field sketches the is a qualifative fieldwork techique that can be used. By taking annotated sketcher and comparing them with secondary data any changes in features of the coastal management in be identified.



This response describes an alternative fieldwork technique in detail.

# Question 6 (a)(ii)

Please note that the comments made on Q06 also apply to Q04 and Q05 as the questions are in parallel and the resources very similar.

Section B had reduced number of marks in this series and as a result fewer questions. There were only questions with unfamiliar fieldwork contexts. There was information provided on the fieldwork context in the exam paper and additional resources in the resource booklet which candidates were required to use.

For this question, candidates needed to state one way maps could be used to support their enquiry. This could be at any stage of the geographical enquiry process and most candidates achieved the mark.

(ii) State **one** way maps could be used to support the enquiry.

(1)

maps can be used to moniter where more voun occurs



Correct potential use of a map for the hazardous environments enquiry described.

1 mark

(ii) State **one** way maps could be used to support the enquiry.

(1)

Help them to view better



This response is too vague for credit and needs to state a more specific use of a map.

(ii) State one way maps could be used to support the enquiry.

(1)

See where the Hopic cyclones normally take place.



Correct potential use of a map for the hazardous environments enquiry described.

1 mark

# Question 6 (b)(i)

This question was answered quite well with many candidates gaining 2 marks. Where candidates scored only one mark, it was due to them not writing the final answer to one decimal place.

- (b) Study Figure 6b which shows some data about rainfall over 5 days during a tropical cyclone event.
  - (i) Calculate the mean rainfall.

Give your answer to one decimal place.

You must show all your workings in the space below.

(2)

22+12+33+16+8=91

91 5 18-2

18-1 mm



2 marks – correct working and answer rounded to 1 decimal place.

# Question 6 (b)(ii)

This question was answered well with the vast majority of candidates able to identify a correct piece of equipment.

(ii) State one piece of equipment that could be used to measure rainfall.

(1)





1 mark – correct piece of equipment stated for measuring rainfall.

(ii) State one piece of equipment that could be used to measure rainfall.

(1)

# rvier



1 mark – correct piece of equipment stated for measuring rainfall.

# Question 6 (c)(i)

A significant number of candidates were able to achieve two marks, correctly proportioning their segments and shading them to fit the key provided. Some candidates found the demands of this question a challenge with either the proportioning of the segments or correctly following the key or with both elements.

(c) (i) Complete Figure 6d below, using data highlighted in Figure 6c in the Resource Booklet.

Key

Very confident

Confident

Unsure

Didn't feel action was necessary

Don't know

Figure 6d

Pie chart showing views on preparation for tropical cyclones



0 marks – the proportions are incorrect and the largest segment should be shaded as 'very unsure' whereas this candidate has shaded it 'didn't feel action was necessary' making the shading incorrect.

#### (c) (i) Complete Figure 6d below, using data highlighted in Figure 6c in the Resource Booklet.

(2) Very confident Confident Unsure

Didn't feel action

was necessary

Figure 6d Pie chart showing views on preparation for tropical cyclones



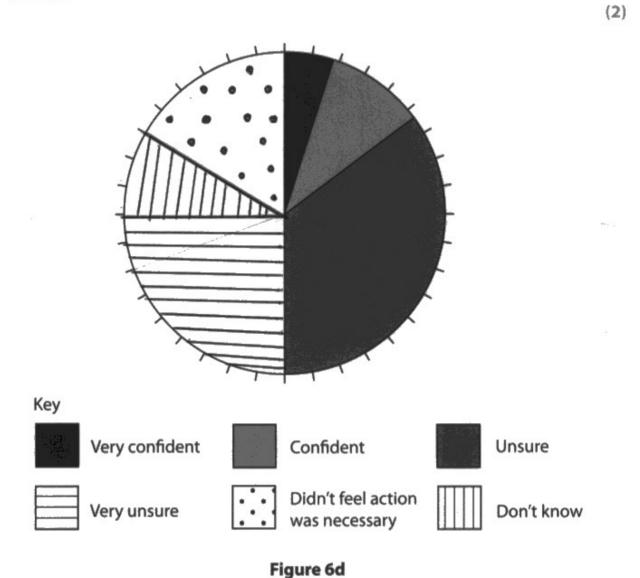
Very unsure

Key

1 mark - this candidate has the shading correct i.e. the biggest segment shows horizontal lines, the smallest segment shows vertical lines and the middle sized segment shows dots. However, the segment of 'didn't feel action was necessary' is too small meaning the plots are not all correct.

Don't know

# (c) (i) Complete Figure 6d below, using data highlighted in Figure 6c in the Resource Booklet.



Pie chart showing views on preparation for tropical cyclones



2 marks – correctly proportioned segments (1) and correct shading (1). The segments could be plotted in any order as long as they were correctly proportioned and shaded (and the 'don't know' segment is within the tolerance agreed in standardisation.

# Question 6 (c)(ii)

Candidates were required to identify two ways the students could have improved the reliability of the data collected. It is important to ensure candidates are familiar with the difference between accuracy and reliability in the context of a geographical enquiry. A considerable number of candidates made suggestions linked to accuracy/validity rather than reliability.

(ii) Identify **two** ways the students could have improved the reliability of the data collected.

(2)

1 # They could have asked more people.

2 The experiment could have been repeated.



This response identifies two correct ways reliability could be improved.

2 marks



Ensure candidates are aware of the difference between reliability and accuracy in a geographical enquiry context.

1 Tlet cocdie referenced has about to collect John

-5 tley didn't thou lots of stuffer

2 They condice been more confident us they are

wastele about 10+5 of things which will give then about

(ii) Identify two ways the students could have improved the reliability of the



This candidate does not identify any correct ways reliability could have been improved.

0 marks

data collected.

(ii) Identify **two** ways the students could have improved the reliability of the data collected.

Specify the age group and place of residence
of the interviewed.

2 Specify the total number of People

surveyed.



This response does not identify any correct ways to improve reliability of the data collected.

# Question 6 (d)

In this question, the candidates were required to explain one other fieldwork technique the students could have used in their enquiry. In this question, candidates are required to focus on one idea and develop it in detail to access the 3 marks available.

A number of candidates found it a challenge to ensure they were aware of all the methods used, which were shown in the resources. This meant a significant proportion of candidates wrote about a method already mentioned resulting in zero marks being awarded. Some candidates are unfamiliar with the term 'fieldwork technique' and as a result explained a sampling strategy instead, also resulting in zero marks being awarded. The better responses explained the how or why their chosen fieldwork technique would support the enquiry.

(d) Explain one other fieldwork technique the students could have used to explore weather characteristics.

(3) Collect secondary information, for example & find online photos or videos to as reference and to do comparison.



This response, although brief, explains the use of secondary data (1) such as videos and photos to reinforce (1) (findings) and to make comparisons (1).

(d) Explain one other fieldwork technique the students could have used to explore weather characteristics.

(3)

One de Establica (3)

Could be explored and calk have people experiences

Many and calk have people experiences

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This candidate explains how they would carry out a questionnaire. However, this was a technique mentioned in Figure 6c and therefore can not be credited.

(d) Explain one other fieldwork technique the students could have used to explore weather characteristics.

(3) The stytued could us a systematic methord or Random methon us collection tion

methord as to find the weather charastrists from the people who are hing by the hazourdones environents.



This was a fairly common error where candidates misinterpret the term 'fieldwork technique' and explain a sampling strategy instead.

#### **Paper Summary**

Based on their performance on this paper, candidates are offered the following advice:

- When answering the 8-mark longer response questions candidates need to be clear on the demands of the command word 'analyse'. This requires candidates to investigate an issue by breaking it down into different components and making logical, evidence-based connections between these components.
- Candidates need to recognise that the longer response 8-mark question is dominated by the AO distribution (4 marks for AO3 and 4 marks for AO4). Therefore, responses that are unbalanced or focus on one AO will be limited to a Level 1 response.
- In questions where candidates are asked to develop a single reason, it is important to ensure that the appropriate number of links in the explanatory chain are developed. The number of marks should be used as a guide. These questions usually have the command word, 'suggest' or 'explain', but may differ in depth depending on the expectation of the question. For example, a 4-mark, 'explain one reason why...' question requires greater depth than a 4-mark, 'explain two reasons for...' question.
- Candidates need to be secure in their understanding of geographical terminology e.g. know the difference between erosion and weathering.
- Candidates need to ensure they follow requirements for calculation questions accurately, particularly where they are asked to round an answer to one decimal place.
- It is important that candidates are aware of the difference between reliability and accuracy in the context of a geographical enquiry.
- Some candidates do not follow the instructions on the front of the exam paper and attempt to answer all questions which often results in the candidate running out of time. It would be useful to spend time with candidates, using the SAMs materials to ensure they are familiar with the structure of the paper to avoid rubric infringements.

#### **Grade boundaries**

Grade boundaries for this, and all other papers, can be found on the website on this link:

https://qualifications.pearson.com/en/support/support-topics/results-certification/gradeboundaries.html

