

## Investigating river environments -1

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

Time:

Total Marks Available:

Total Marks Archived:

Level: IGCSE Mathematics A

Subject: Geography

Exam Board: Edexcel IGCSE Geography- it is however suitable for use by mathematics student of other boards

Topic: Investigating river environments -1

Type: Topic Questions

To be used by all students preparing for Edexcel IGCSE Geography- Students of other Boards may also find this useful

# Questions

Q1.

## Investigating coastal environments

Answer the question with a cross in the box you think is correct ☒. If you change your mind about an answer, put a line through the box ~~☒~~ and then mark your new answer with a cross ☒.

Study Figure 5a in the Resource Booklet. It shows the data collected for an investigation about changes along a coastline.

(i) Identify the correct unit for sediment long axis size in Figure 5a.

(1)

<input type="checkbox"/>	A mm
<input type="checkbox"/>	B m <sup>2</sup>
<input type="checkbox"/>	C mm <sup>3</sup>
<input type="checkbox"/>	D m/s

(ii) Calculate the mean gradient on Figure 5a.

Give your answer to one decimal place.

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You must show all your workings in the space below.

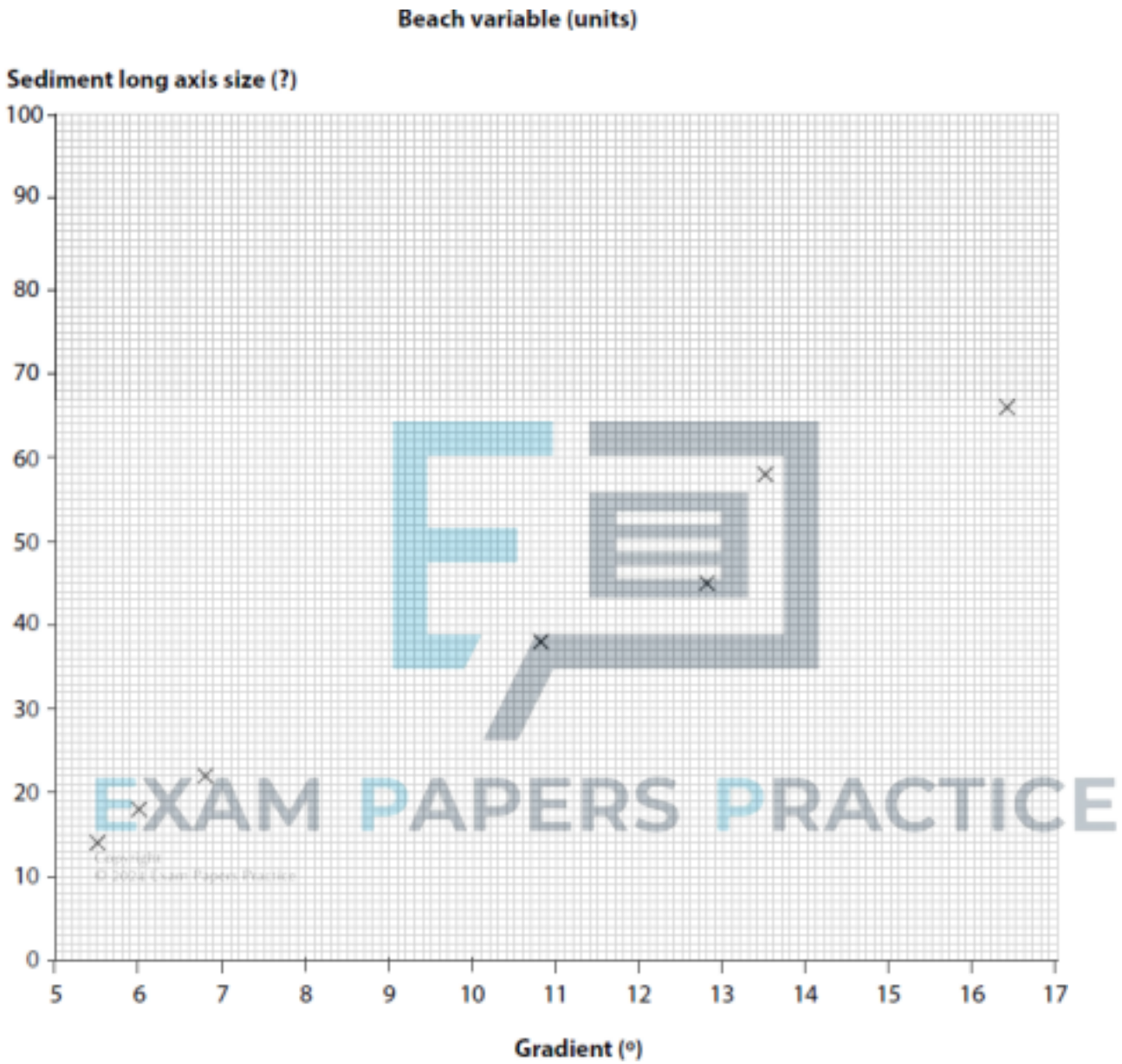
(2)

.....°

Using the data in Figure 5a:

(iii) plot the points for Site 4 and Site 7 on Figure 5b.

(2)



**Figure 5b**

(iv) draw a line of best fit on Figure 5b.

(1)

(v) explain **one** reason for the relationship shown on Figure 5b.

(2)

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(Total for question = 8 marks)

Q2.

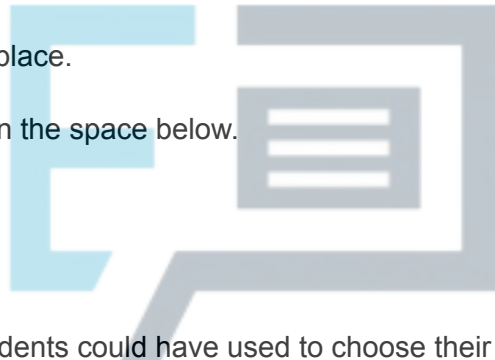
**Investigating coastal environments**

Study Figure 5b which shows some data about beach characteristics at four sites where data was collected.

(i) Calculate the mean pebble size at Site 2.

Give your answer to one decimal place.

You must show all your workings in the space below.



(2)

..... mm

(ii) State **one** type of sampling students could have used to choose their data collection sites.

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(1)

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(iii) Suggest **one** reason why the data for Site 1 may not be reliable.

(2)

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(Total for question = 5 marks)

Q3.

**Investigating river environments**

**Answer the question with a cross in the box you think is correct ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.** Study Figure 4a in the Resource Booklet. It shows the data collected for an investigation about changes in a river channel.

(i) Identify the correct unit for velocity in Figure 4a.

(1)

<input type="checkbox"/>	<b>A</b> m <sup>2</sup>
<input type="checkbox"/>	<b>B</b> m/s
<input type="checkbox"/>	<b>C</b> m <sup>3</sup>
<input type="checkbox"/>	<b>D</b> m

(ii) Calculate the mean width of the river shown in Figure 4a.

Give your answer to one decimal place.

You must show all your workings in the space below.

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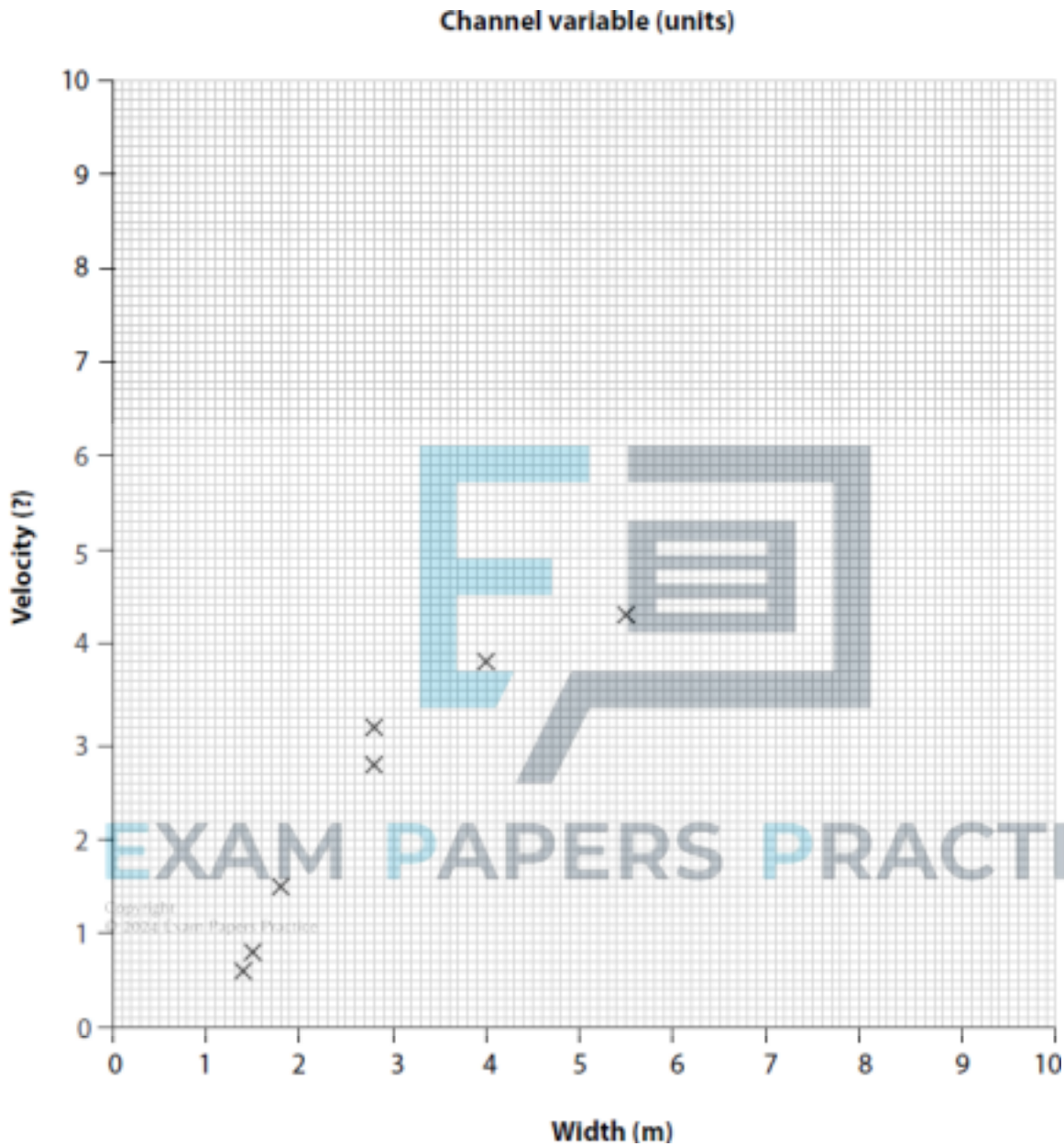
(2)

..... m

Using the data in Figure 4a:

(iii) plot the points for Site 4 and Site 7 on Figure 4b.

(2)



**Figure 4b**

(iv) draw a line of best fit on Figure 4b.

(1)

(v) explain **one** reason for the relationship shown on Figure 4b.

(2)

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(Total for question = 8 marks)

Q4.

**Investigating hazardous environments**

Answer the question with a cross in the box you think is correct ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

Study Figure 6a in the Resource Booklet. It shows the data collected for an investigation about a tropical storm.

(i) Identify the correct unit for air pressure in Figure 6a.

(1)

<input type="checkbox"/>	A mm
<input type="checkbox"/>	B m <sup>2</sup>
<input type="checkbox"/>	C mb
<input type="checkbox"/>	D °C

(ii) Calculate the mean wind speed in Figure 6a.

Give your answer to one decimal place.

You must show all your workings in the space below.

(2)

..... knots

Using the data in Figure 6a:

(iii) plot the points for Day 4 and Day 7 on Figure 6b.

(2)



Weather variable (units)

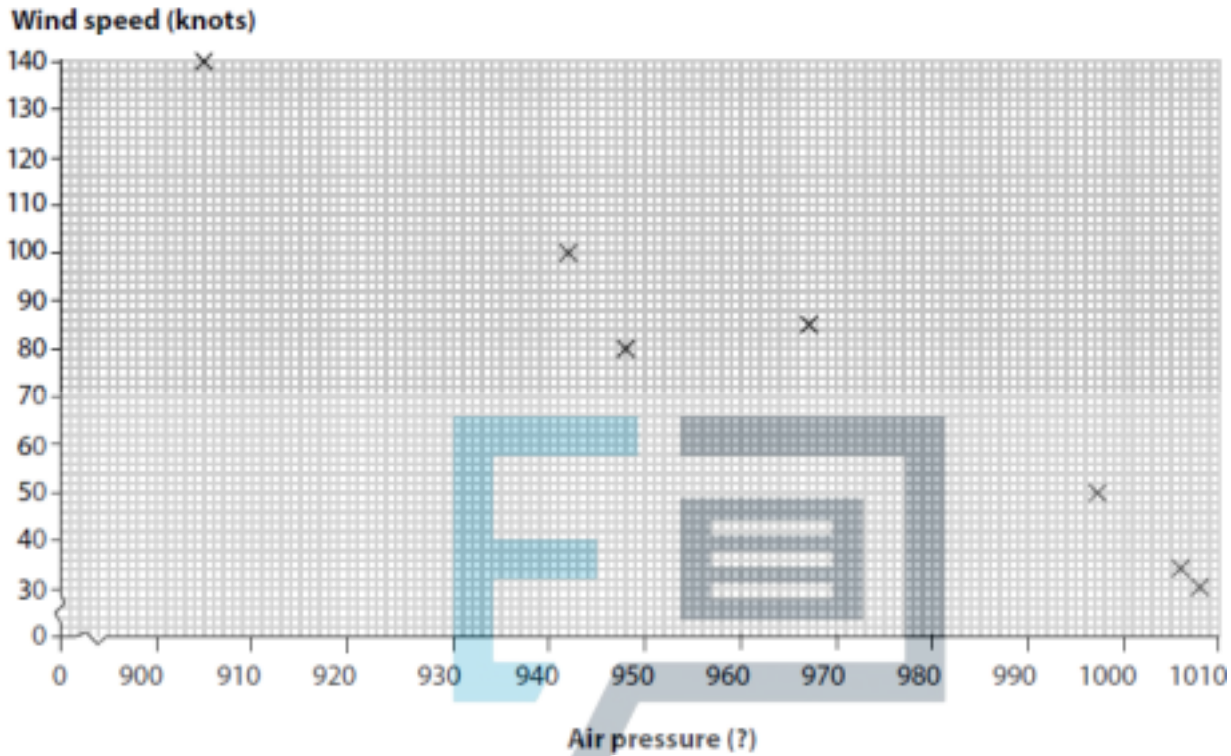


Figure 6b

(iv) draw a line of best fit on Figure 6b.

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(1)

(v) explain **one** reason for the relationship shown on Figure 6b.

(2)

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(Total for question = 8 marks)



Q5.

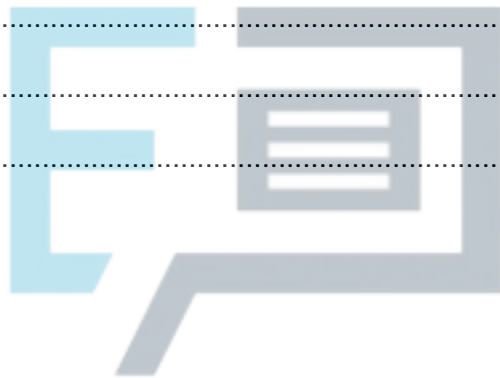
**Investigating River Environments**

You have investigated river channel characteristics as part of your own geographical enquiry. Describe **one** disadvantage of a sampling strategy used in your investigation.

(2)

Name of sampling strategy .....

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(Total for question = 2 marks)

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Q6.

**Investigating Coastal Environments**

You have investigated sediment characteristics as part of your own geographical enquiry. Describe **one** disadvantage of a sampling strategy used in your investigation.

(2)

Name of sampling strategy .....

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(Total for question = 2 marks)

Q7.

**Investigating Hazardous Environments**

You have investigated variations in weather as part of your own geographical enquiry. Describe **one** disadvantage of a sampling strategy used in your investigation.

(2)

Name of sampling strategy .....

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(Total for question = 2 marks)

Q8.

**Investigating River Environments**

You have investigated river channel characteristics as part of your own geographical enquiry.

Study Figures 4a, 4b and 4c in the Resource Booklet. These show some information from a student's geographical enquiry into river environments.



The aim of the student's geographical enquiry was to investigate how characteristics change along the course of the River Tung Chung, Hong Kong.

The student planned to carry out fieldwork measuring channel width and depth, and velocity.

Evaluate how the resources, Figure 4a, 4b and 4c, might have helped the student plan a geographical enquiry.

(8)



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(Total for question = 8 marks)

Q9.

### Investigating Coastal Environments

You have investigated sediment characteristics as part of your own geographical enquiry. Study Figures 5a, 5b and 5c in the Resource Booklet. These show some information from a student's geographical enquiry into coastal environments.

The aim of the student's geographical enquiry was to investigate how characteristics change along the stretch of the coastline at Jabula beach, South Africa.

The student planned to carry out fieldwork measuring beach profiles.

Evaluate how the resources, Figure 5a, 5b and 5c, might have helped the student plan a geographical enquiry.

(8)

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(Total for question = 8 marks)

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Q10.

### Investigating Hazardous Environments

You have investigated variations in weather as part of your own geographical enquiry.

Study Figures 6a, 6b and 6c in the Resource Booklet. These show some information from a student's geographical enquiry into hazardous environments.

The aim of the student's geographical enquiry was to investigate variations in hazard risk in the area around Cox's Bazar, Bangladesh.

The student planned to carry out fieldwork measuring variations in local risk and hazard mapping.

Evaluate how the resources, Figure 6a, 6b and 6c, might have helped the student plan a geographical enquiry.

(8)

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(Total for question = 8 marks)

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Q11.

**Investigating river environments**

Study Figure 4c in the Resource Booklet. It shows information about the sampling strategy used in the collection of river data.

Explain **one** advantage and **one** disadvantage of using this sampling strategy.

(4)

Chosen sampling strategy

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Advantage

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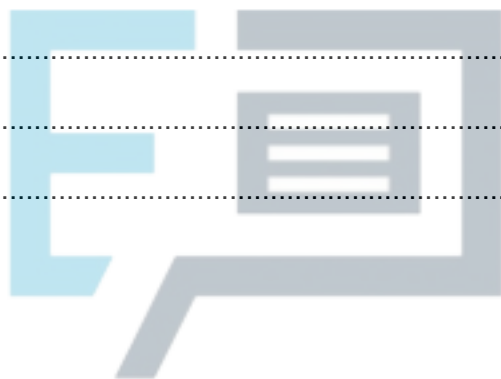
Disadvantage

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(Total for question = 4 marks)

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Q12.

### Investigating coastal environments

Study Figure 5c in the Resource Booklet. It shows information about the sampling strategy used to collect beach data.

Explain **one** advantage and **one** disadvantage of using this sampling strategy.

(4)

Chosen sampling strategy

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Advantage



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Disadvantage

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(Total for question = 4 marks)

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### Investigating hazardous environments

Study Figure 6c in the Resource Booklet. It shows information about the sampling strategy used to collect weather data.

Explain **one** advantage and **one** disadvantage of using this sampling strategy.

(4)

Chosen sampling strategy

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Advantage

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Disadvantage

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(Total for question = 4 marks)

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