

## Hazardous environments -3

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: Hazardous environments -3

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.

## Hazardous Environments

Study Figure 3c and Figure 3d in the Resource Booklet.

Analyse the short and longer term impacts of volcanic eruptions.

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(Total for question = 8 marks)



Q2.

**Hazardous Environments.**

(i) State **one** measure of earthquake intensity.

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(1)

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(ii) State **one** characteristic of a volcanic eruption.

(1)

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(iii) Explain **one** cause of an earthquake event.

(2)

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**(Total for question = 4 marks)**

Q3.

**Investigating river environments**

A group of students has undertaken a geographical enquiry exploring changes in a river channel. You have studied river processes as part of your own geographical enquiry.

Evaluate the effectiveness of the data presentation methods you used.

(8)

Enquiry question

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(Total for question = 8 marks)

Q4. (1)

### Hazardous environments

(i) State **one** way people could prepare for a tropical cyclone. (1)

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(ii) Explain **one** method used to predict a tropical cyclone. (2)

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**(Total for question = 3 marks)**

Q5.

**Hazardous environments**

Explain **one** way building design can help prepare for earthquakes.

(3)

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**(Total for question = 3 marks)**

Q6.

**Hazardous Environments**



Explain **one** way building design reduces the impacts of earthquakes.

(3)

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(Total for question = 3 marks)

Q7.

**Hazardous Environments.**

Explain **one** way earthquakes can form tsunamis.

(3)

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(Total for question = 3 marks)

Q8.

**Hazardous environments**

Explain the cause of an earthquake.

(3)

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(Total for question = 3 marks)

Q9.

**Hazardous Environments**

Explain **two** ways emergency relief can reduce the impacts of earthquakes.

(4)

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(Total for question = 4 marks)



Q10.

**Investigating river environments**

A group of students has undertaken a geographical enquiry exploring changes in a river channel.

(i) State **one** secondary data source that the students might have used when undertaking this enquiry. (1)

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(ii) Identify **one** possible disadvantage of the secondary data source identified in (i). (1)

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Study Figure 4a in the Resource Booklet. It shows river channel characteristics at three sites.

(iii) Use the data in Figure 4a to find the mean depth of the river at Site 2.



Give your answer to one decimal place.

You must show all your workings in the space below.

..... cm

(2)

(iv) Use the data in Figure 4a to plot the data for sampling points 7 and 8 to complete the graph. (2)

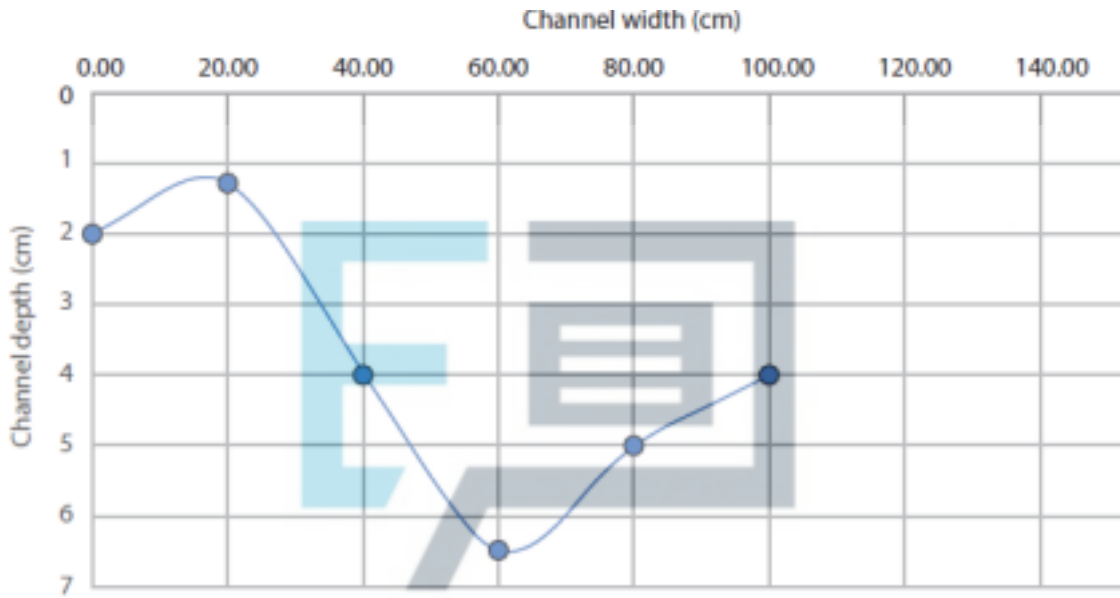


Figure 4b  
River cross section at Site 1

(v) The three sites (Sites 1–3) were selected randomly along the river.

Suggest **one** reason why an alternative sampling method might be chosen to select the sites. (2)

Sampling method .....

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(Total for question = 8 marks)

Q11.

**Hazardous environments**

Study Figure 3b in the Resource Booklet.  
Identify a potential short-term impact of the hazard shown.

(1)

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(Total for question = 1 mark)

Q12.



**Hazardous Environments**

Study Figure 3b in the Resource Booklet.  
Identify **one** characteristic of this volcanic eruption.

(1)

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(Total for question = 1 mark)

Q13.

**Hazardous Environments.**

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Identify the statement below that best describes the epicentre of an earthquake.

(1)

<input type="checkbox"/>	<b>A</b> the area around the earthquake on the surface
<input type="checkbox"/>	<b>B</b> the point on the Earth's surface directly above the focus
<input type="checkbox"/>	<b>C</b> the area around the earthquake underground
<input type="checkbox"/>	<b>D</b> the location underground where the earthquake occurs

(Total for question = 1 mark)

Q14.



Study Figure 3b in the Resource Booklet.

Identify X.

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(1)

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(Total for question = 1 mark)

Q15.

**Hazardous environments**

Study Figure 3c in the Resource Booklet.

Analyse the differences between the tropical cyclone hazards and impacts.

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(Total for question = 8 marks)



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