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Answer **THREE** questions.

If you answer Question 1 put a cross in this box .

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

(a) (i) Put a cross in the box to identify:

1. the drainage basin with the **highest** sediment yield per square kilometre
2. the river with the **smallest** drainage basin on the map.

A B C D
E F G H

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(ii) Suggest how landuse may affect the amount of sediment that reaches a river.

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(iii) Identify **one other** factor and explain how it could affect the amount of sediment that reaches a river.

Named factor

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(iv) Identify possible problems caused by too much sediment in a river channel.

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(b) Study Figure 1(b) in the Resource Booklet.

(i) Identify the main differences between the two river regimes.

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(ii) Suggest how geology combines with other factors to account for these differences.

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(c) Using examples, examine the ways in which rivers can be managed in a sustainable way.

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If you answer Question 2 put a cross in this box .

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

(i) Describe the main features of the river's channel and valley.

Channel

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Valley

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(ii) For **one** of the features identified in (a)(i) explain how it has been formed.

Chosen feature

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(iii) Describe and explain how this river may change during and after flood conditions.

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(b) Study Figure 2(b) in the Resource Booklet.

(i) What is the cartoon saying about the use of floodplains?

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(ii) Examine the issues that may arise as a result of building on floodplains.

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(c) With reference to examples, examine the factors that lead to variations in **either** valley cross profiles **or** river long profiles.

Choice

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If you answer Question 3 put a cross in this box ☒.

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

(i) Using Figure 3(a) suggest how the discharge may vary along the course of the River Tigris.

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(ii) Explain why international cooperation is required to manage the water resources in this region.

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

(i) Describe the main changes to the wetlands between 1973 and 2000.

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(ii) Suggest how human pressures may have caused these changes.

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(iii) Why are wetlands important?

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(c) Using an example of a named **coastal** ecosystem, examine why management is vital for its survival.

Named coastal ecosystem

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If you answer Question 4 put a cross in this box .

4. (a) Study Figure 4(a) in the Resource Booklet.

(i) Describe how the sea level has changed over time.

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(ii) What caused these sea level changes?

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(iii) Suggest how coastal processes are eroding the **present day** coastline.

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(iv) How might global warming contribute to an increase in the rate of coastal erosion in the future?

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(b) Study Figure 4(b) below. It shows wave refraction along a coastline.

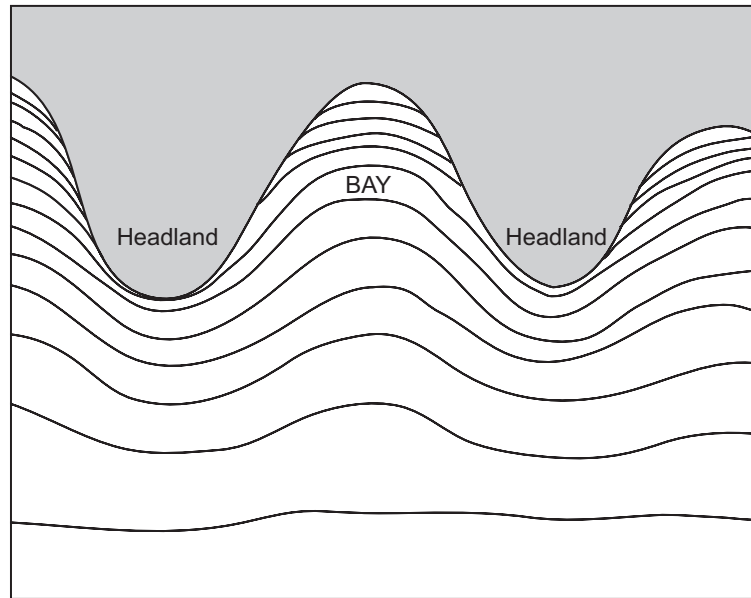


Figure 4(b)

(i) What is wave refraction?

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(ii) Explain how wave refraction causes both erosion and deposition on the coastline.

You may annotate Figure 4(b).

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If you answer Question 5 put a cross in this box ☒.

5. (a) Study Figure 5(a) in the Resource Booklet.

(i) Identify feature A.

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(ii) Suggest how feature A has been formed.

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(iii) Explain why a beach can be thought of as a **system**.

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(b) Study Figure 5(b) in the Resource Booklet.

(i) Identify **two** methods of hard engineering used on this stretch of coastline.

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(ii) Suggest how the landuse has influenced the choice of management strategies.

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(iii) Outline some possible coastal management issues that the local council will face in the future.

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