



Answer FOUR questions only.

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

1. (a) Study Figure 1 which shows storm hydrographs (1 and 2) for two different sites along the same river.

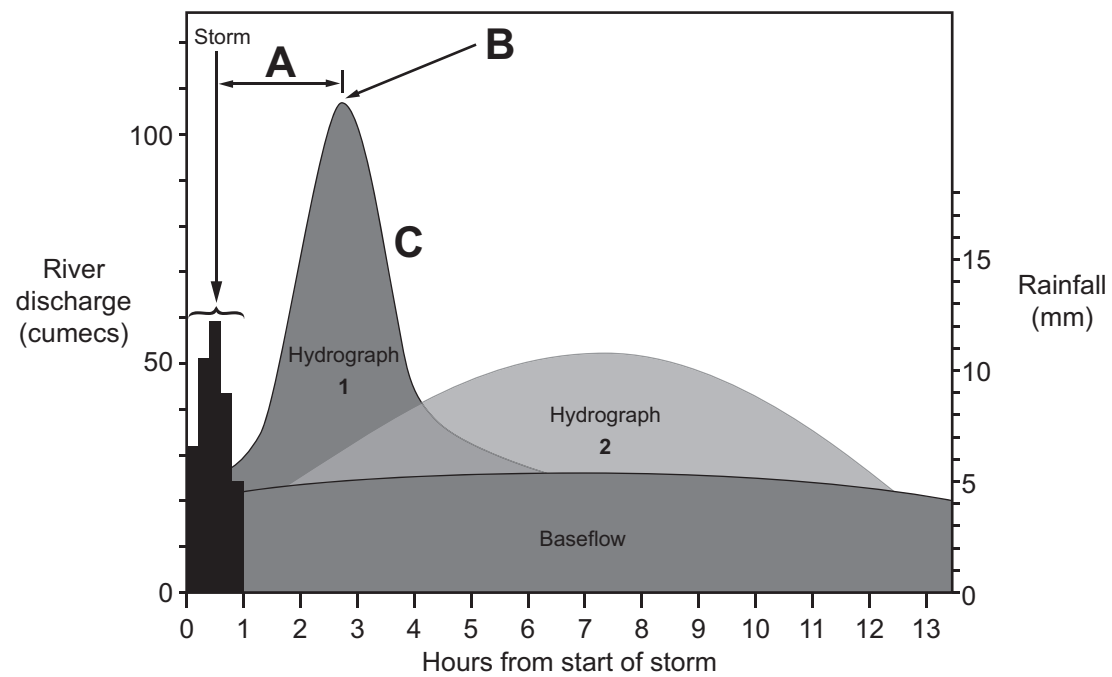


Figure 1

- (i) How long did the storm last?

..... (1)

- (ii) Name features A, B and C on Hydrograph 1.

A .....

B .....

C .....

(3)

- (iii) What is meant by the term **baseflow**?

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(2)



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(iv) Compare the shape of Hydrograph 1 with the shape of Hydrograph 2.

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(4)

(v) Suggest reasons for the differences in the shapes of the two hydrographs.

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(6)





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

2. (a) Study Figure 2 which gives information about a recent natural hazard event in Kashmir on the India–Pakistan border.

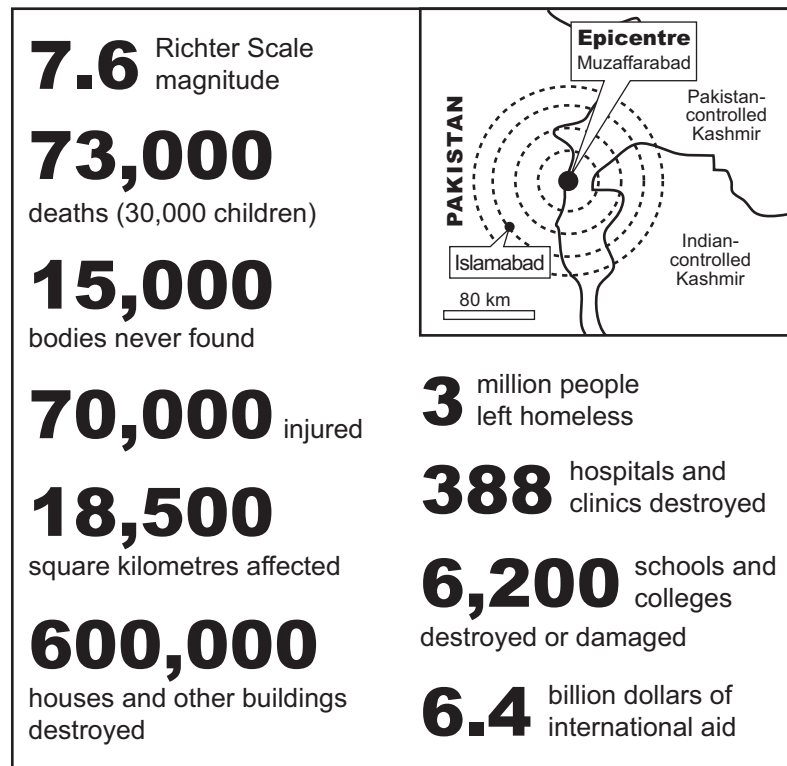


Figure 2

(i) What type of natural hazard was the event? Put a cross () in the correct box.

- earthquake
- storm
- tsunami
- volcanic eruption

(1)



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(ii) Identify and explain **two** pieces of evidence to support your choice.

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2 .....

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(iii) Suggest why international aid was sent to Kashmir.

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(b) (i) What is a destructive plate margin (boundary)?

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**(2)**

(ii) Explain why natural hazard events occur along this type of plate margin.

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**(4)**





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(c) With reference to examples, describe the different ways in which AICs (advanced industrial countries) and LICs (low income countries):

1. prepare for natural events

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2. react when such events occur.

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Q2

(Total 25 marks)

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

3. (a) Study Figure 3(a) which shows the distribution of relief and annual rainfall in Sri Lanka.

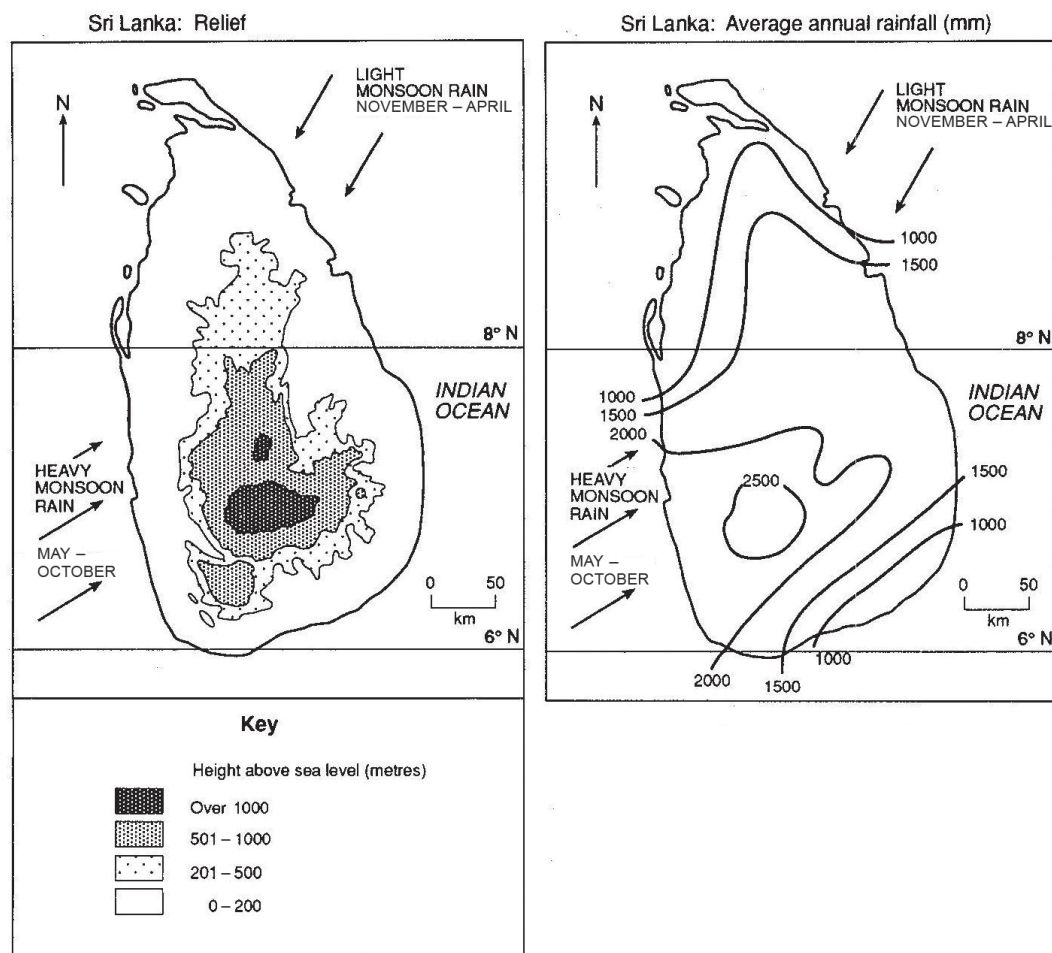


Figure 3(a)

- (i) Give the wind direction of the monsoon rain between May and October.

..... (1)



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(ii) Describe the distribution of relief.

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**(3)**

(iii) Suggest how the distribution of annual rainfall is affected by:

1. relief

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2. monsoon wind direction.

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**(6)**



(b) Study Figure 3(b) which shows the Mahaweli Ganga Development Project in Sri Lanka. This is a multi-purpose water management project.

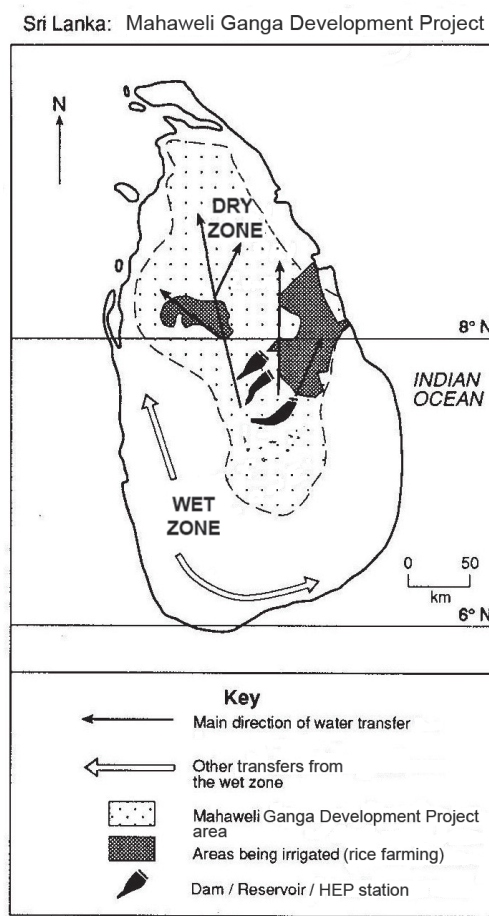


Figure 3(b)

Suggest **three** of the project's purposes.

- 1.....  
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- 2.....  
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- 3.....  
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If you answer Question 4 put a cross in this box  .

4. (a) Study Figure 4 which shows an eroding cliff.

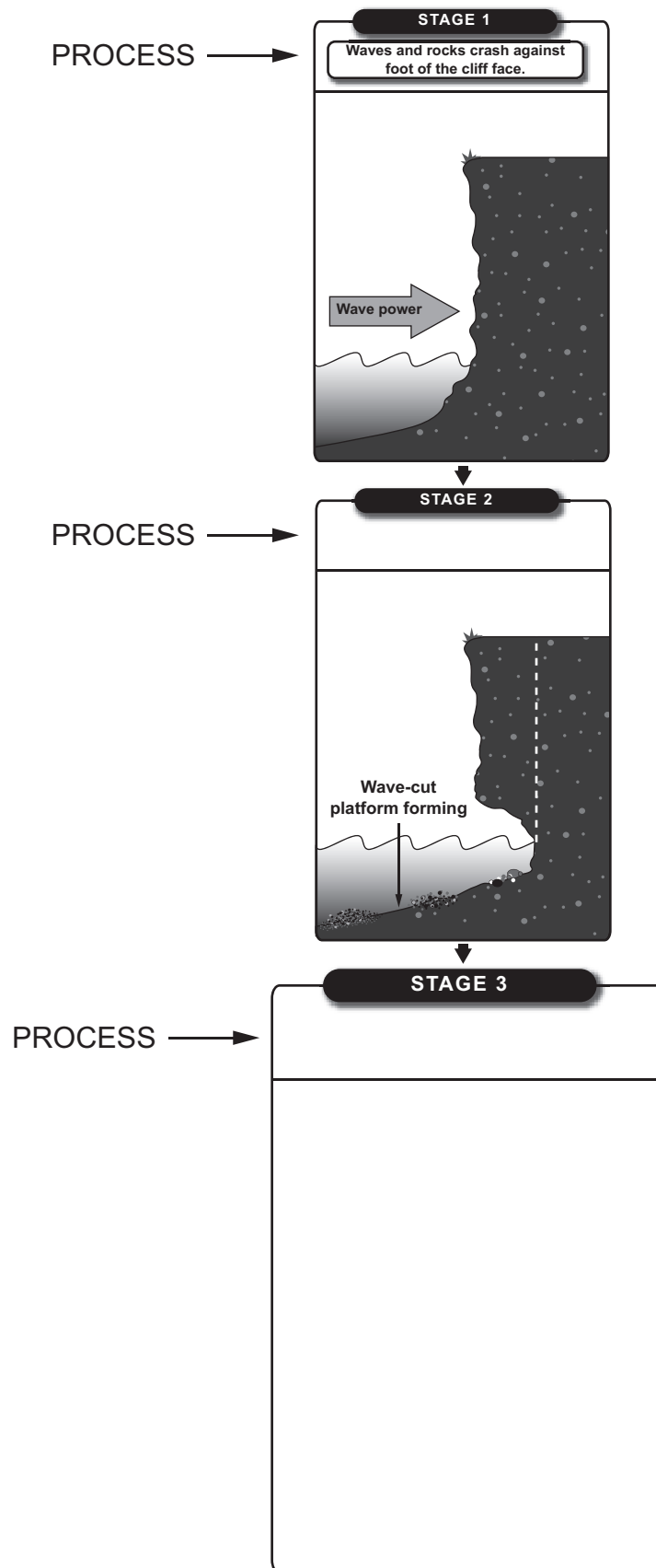


Figure 4



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(i) What is a wave-cut platform?

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(1)

(ii) Annotate the Stage 2 diagram to explain the stages since Stage 1.

(3)

(iii) In the space provided, draw and annotate a diagram to show what might happen to the cliff in Stage 3.

(4)

(iv) Name **one** process other than wave power that helps cliff erosion.

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(1)

(v) Explain how this process helps cliff erosion.

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(3)



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(b) (i) Name a type of coastal defence scheme which requires:

1. soft engineering

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2. hard engineering

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(2)

(ii) Give **one** reason why soft engineering schemes are generally preferred at present.

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(2)







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

5. (a) Study Figure 5 which shows three different types of rainfall (X, Y and Z).

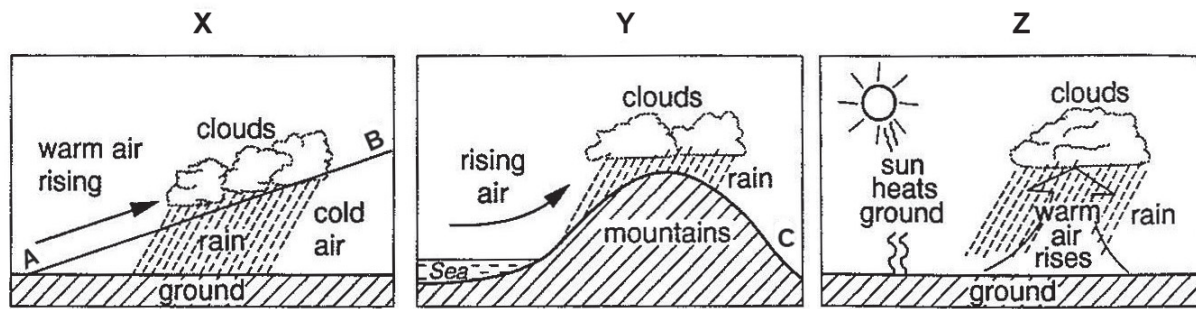


Figure 5

(i) Name each of the **three** types of rainfall.

X .....

Y .....

Z .....

(3)

(ii) Name the feature shown by the line A–B for rainfall X.

.....

(1)

(iii) What feature is represented by C for rainfall Y?

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(1)

(iv) Rainfall Z is often associated with a dramatic warm weather event. Suggest what this is.

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(1)



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(v) Explain the basic process of cloud and rain formation.

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(b) Describe the structure of a depression. You may answer in the form of a labelled diagram.

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(4)





If you answer Question 6 put a cross in this box  .

6. (a) Study Figure 6 which gives information about two locations (A and B) in the Northern Hemisphere.

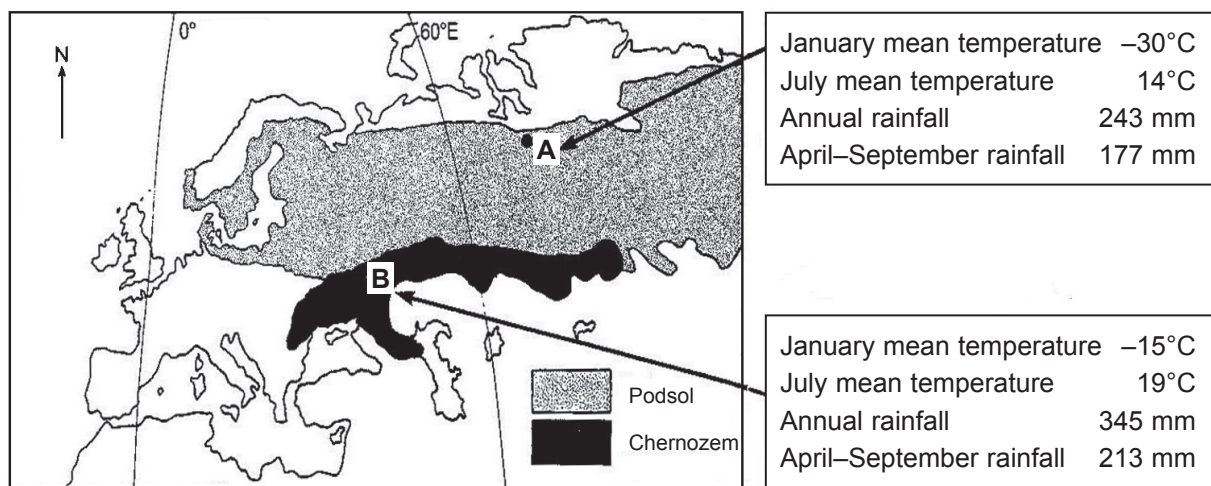


Figure 6

Compare A and B in terms of:

1. the amount and distribution of rainfall

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2. the temperature range.

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(4)



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(b) (i) What is meant by the term **soil profile**?

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(2)

(ii) What term is used to describe the movement of material downwards through a soil?

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(1)

(iii) Explain why:

1. downward movement is more common in cool climate soils (e.g. podsols)

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2. upward movement is more common in warmer climate soils (e.g. chernozems).

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(5)



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(iv) Describe **two** factors, other than climate, that affect the formation of soils.

1 .....

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2 .....

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If you answer Question 7 put a cross in this box  .

7. (a) Study Figure 7 which shows two different types of weathering (diagrams A and B).

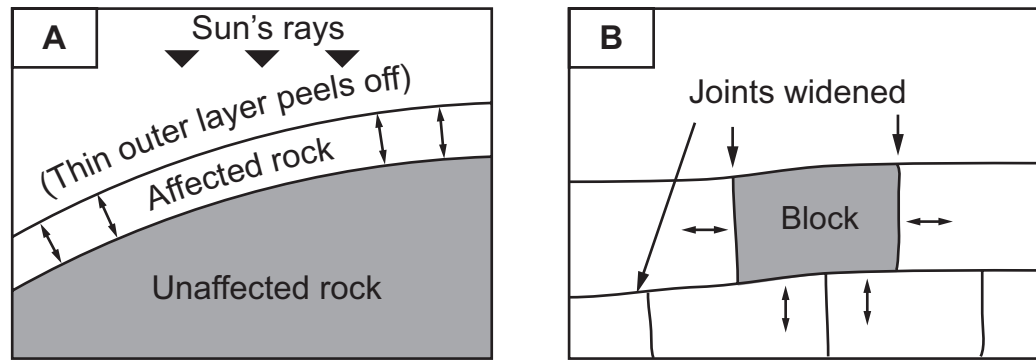


Figure 7

(i) What is meant by the term **weathering**?

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(2)

(ii) Name the type of weathering in:

1. Diagram A

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2. Diagram B.

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(2)



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(iii) Explain how the weathering process in diagram **A** differs from that in diagram **B**.

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(b) (i) Name a type of rock that generally weathers:

1. very easily

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2. very slowly.

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**(2)**

(ii) Outline two differences in climate between areas where mechanical (physical) weathering is strong and areas where chemical weathering is strong.

1 .....

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2 .....

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**(4)**





If you answer Question 8 put a cross in this box  .

8. (a) Study Figure 8 which shows the distribution of tropical forest. It also shows how the forested area of five countries changed between 2000 and 2005.

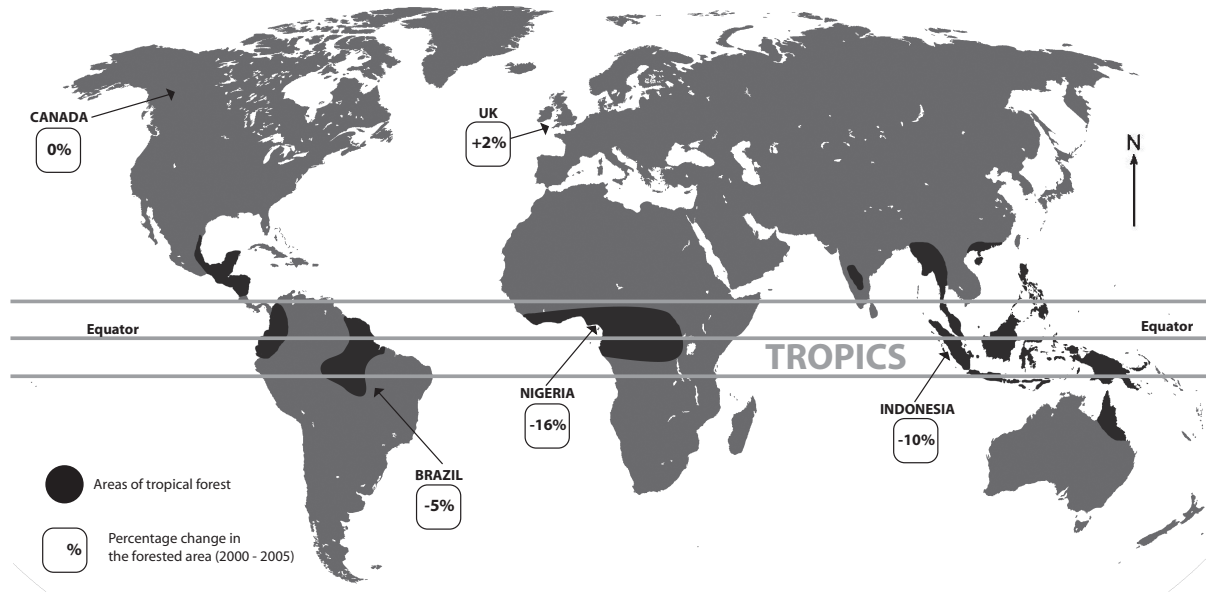


Figure 8

(i) Describe the distribution of tropical forests.

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(3)

(ii) Suggest how climate explains this distribution.

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(3)



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(b) Outline the structure and characteristics of tropical forests.

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(c) Look again at Figure 8.

Suggest reasons why the change in forested area varies between countries.

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**(6)**



