



National
Qualifications
2022

X833/76/11

**Geography
Physical and Human
Environments**

WEDNESDAY, 27 APRIL

9:00 AM – 10:50 AM

Total marks — 100

SECTION 1 — PHYSICAL ENVIRONMENTS — 50 marks

Attempt ALL questions.

SECTION 2 — HUMAN ENVIRONMENTS — 50 marks

Attempt ALL questions.

You will receive credit for appropriately labelled sketch maps and diagrams.

Write your answers clearly in the answer booklet provided. In the answer booklet you must clearly identify the question number you are attempting.

Use **blue** or **black** ink.

Before leaving the examination room you must give your answer booklet to the Invigilator; if you do not, you may lose all the marks for this paper.



SECTION 1 — PHYSICAL ENVIRONMENTS — 50 marks

Attempt ALL questions

Question 1

Diagram Q1 Arête



Look at Diagram Q1.

Explain the formation of an arête.

You may wish to use an annotated diagram or diagrams in your answer.

10

Question 2

Diagram Q2 Stack



Look at Diagram Q2.

Explain the formation of a stack.

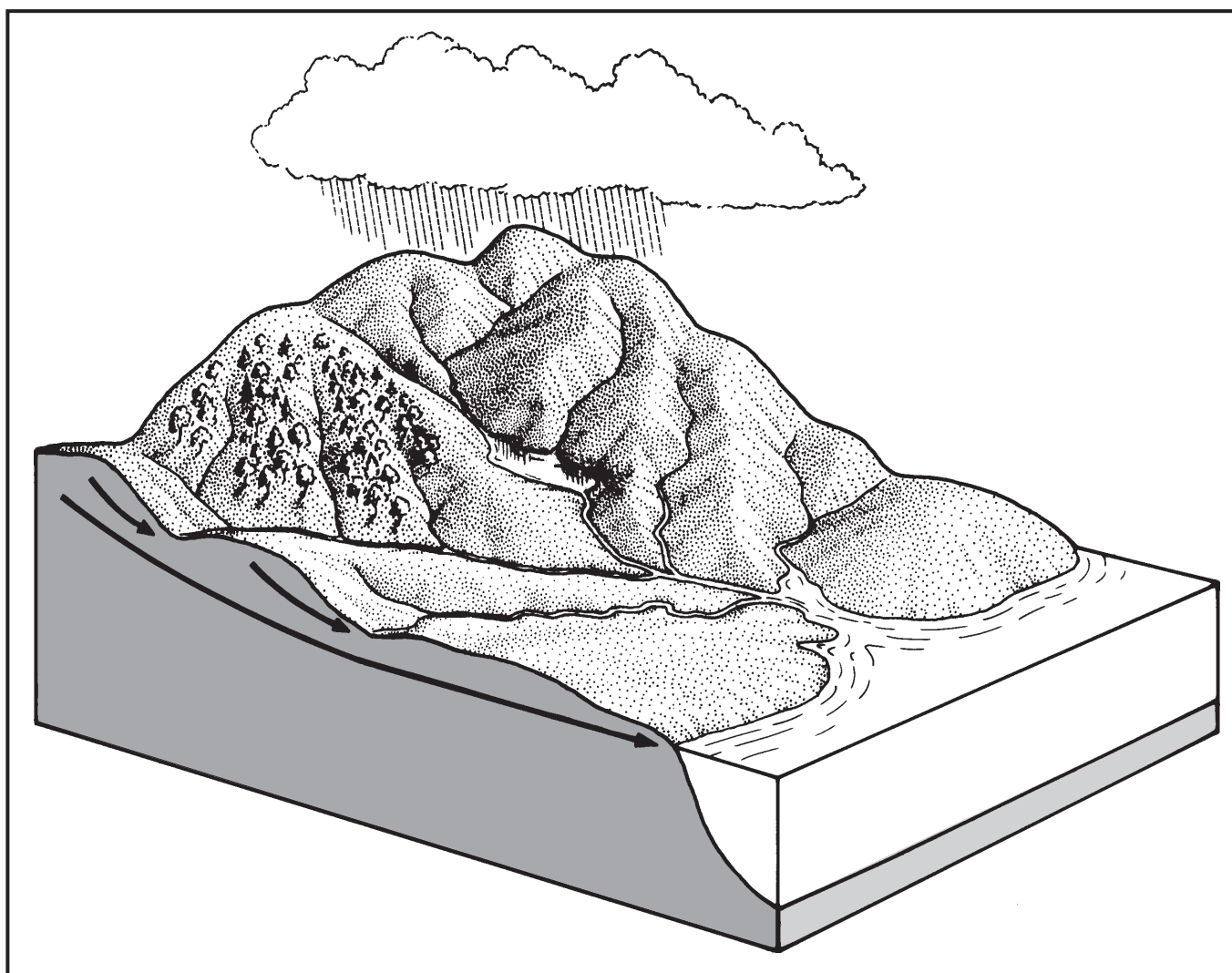
10

You may wish to use an annotated diagram or diagrams in your answer.

[Turn over

Question 3

Diagram Q3 Drainage basin



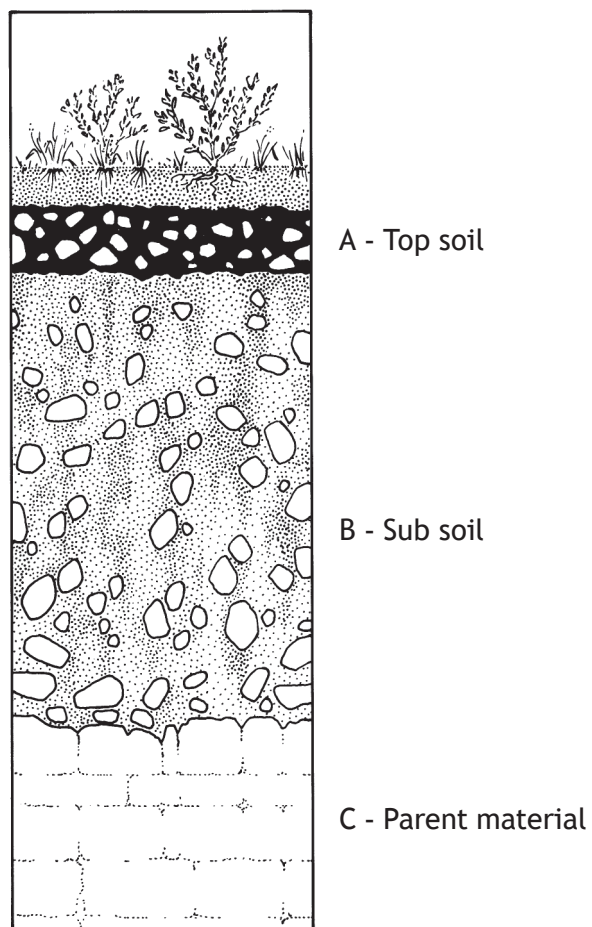
Look at Diagram Q3.

Describe the hydrological cycle within a drainage basin.

8

Question 4

Diagram Q4 A typical gley soil profile



Look at Diagram Q4.

Explain the conditions and processes which lead to the formation of a **gley** soil.

8

[Turn over

Question 5

Diagram Q5A The Intertropical Convergence Zone (ITCZ)

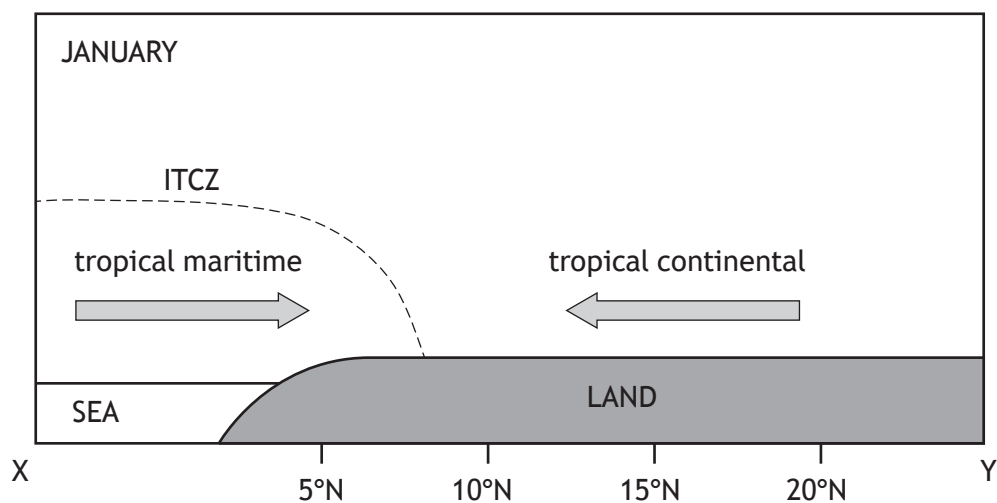
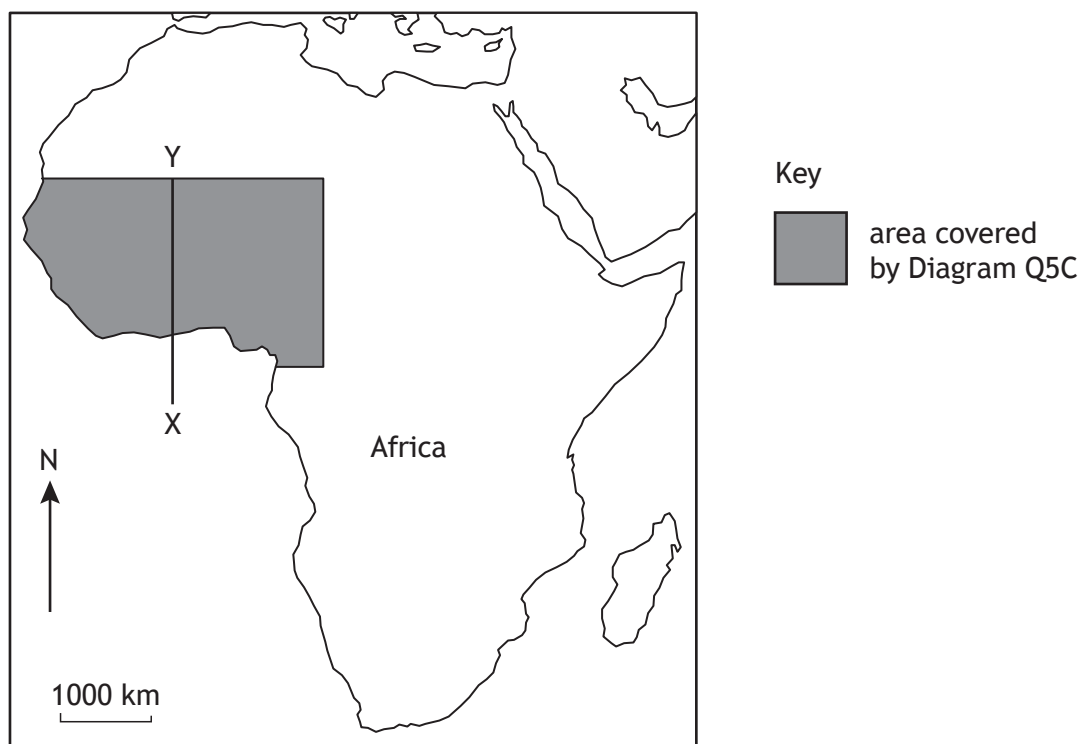


Diagram Q5B Location of section X-Y



Study Diagrams Q5A and Q5B.

- (a) **Describe** the origin and characteristics of the tropical maritime and tropical continental air masses.

Question 5 (continued)

Diagram Q5C Rainfall patterns in West Africa

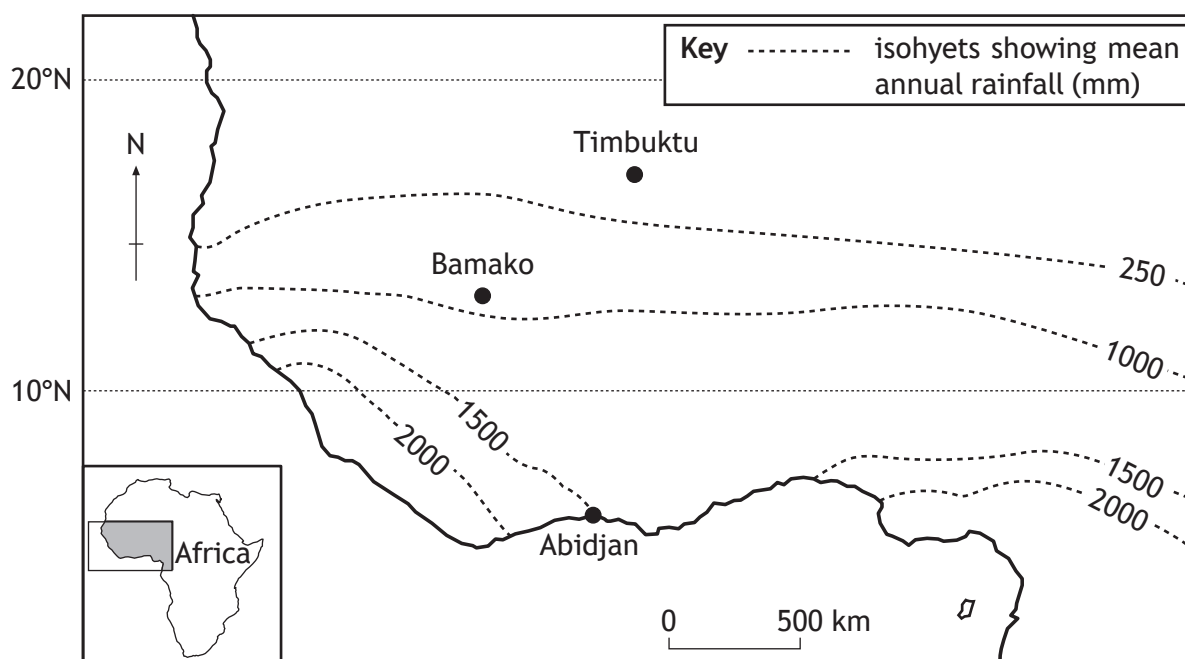
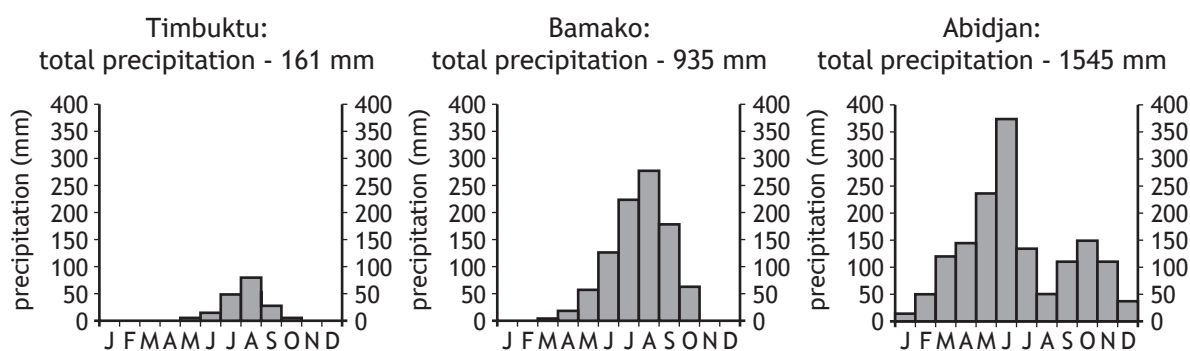


Diagram Q5D Selected rainfall graphs



Study Diagrams Q5A, Q5B, Q5C and Q5D.

(b) Referring to the position of the ITCZ:

- describe the changing rainfall pattern as you move inland from Abidjan to Timbuktu and
- suggest reasons for these differences.

[Turn over

SECTION 2 — HUMAN ENVIRONMENTS — 50 marks

Attempt ALL questions

Question 6

Explain why it may be difficult to gather accurate population data in developing countries.
You may wish to refer to named examples in your answer.

12

Question 7

Referring to a migration flow you have studied, **explain** the reasons for this migration.

6

Question 8

Diagram Q8 Rio de Janeiro



Look at Diagram Q8.

Referring to a named developing world city you have studied:

- (a) **describe** strategies used to improve housing in the city **and**
- (b) **comment on** their effectiveness.

10

Question 9

Referring to **either** a named rainforest **or** a semi-arid area you have studied, **describe** the impacts of land degradation on the area.

10

[Turn over

Question 10

Diagram Q10 Loch Leven, Kinlochleven



Look at Diagram Q10.

Referring to a named glaciated or coastal area you have studied, **describe** the conflicts caused by the various land uses in the area.

12

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