

X208/12/01

NATIONAL THURSDAY, 29 MAY
QUALIFICATIONS 9.00 AM – 10.30 AM
2014

GEOGRAPHY
HIGHER
Paper 1
Physical and
Human Environments

Six questions should be attempted, namely:

all four questions in **Section A** (Questions 1, 2, 3 and 4);

one question from **Section B** (Question 5 **or** Question 6);

one question from **Section C** (Question 7 **or** Question 8).

Write the numbers of the **six** questions you have attempted in the marks grid on the back cover of your answer booklet.

The value attached to each question is shown in the margin.

Credit will be given for appropriate maps and diagrams, and for reference to named examples.

Questions should be answered in sentences.

Note The reference maps and diagrams in this paper have been printed in black only: no other colours have been used.

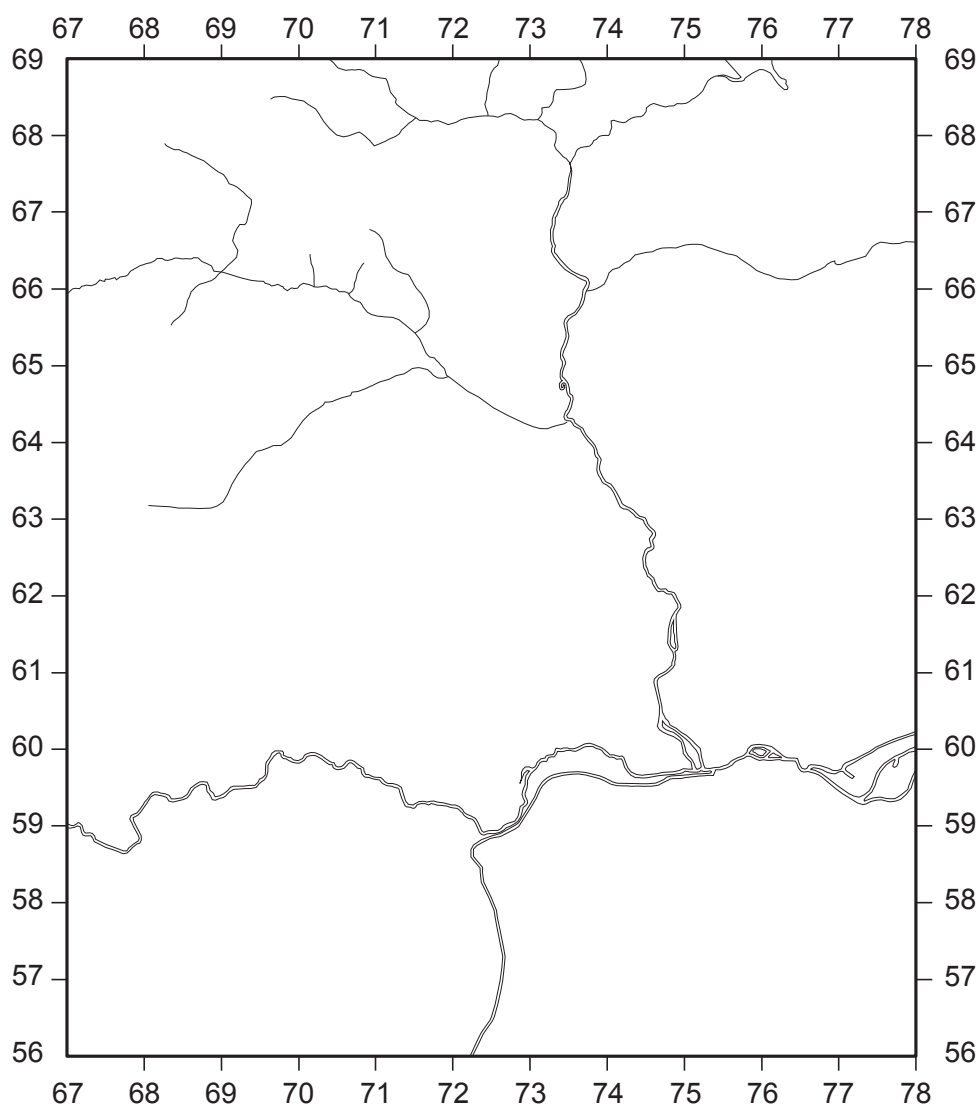


SECTION A: Answer ALL four questions from this section.**Question 1: Hydrosphere**

- (a) Study OS Map Extract number 2054/152: Northampton (*separate item*), **and** Map Q1.

Using map evidence, **describe** the physical characteristics of the Brampton Nene River and its valley from 695684 to 747604.

10

Map Q1: Location of Brampton Nene River

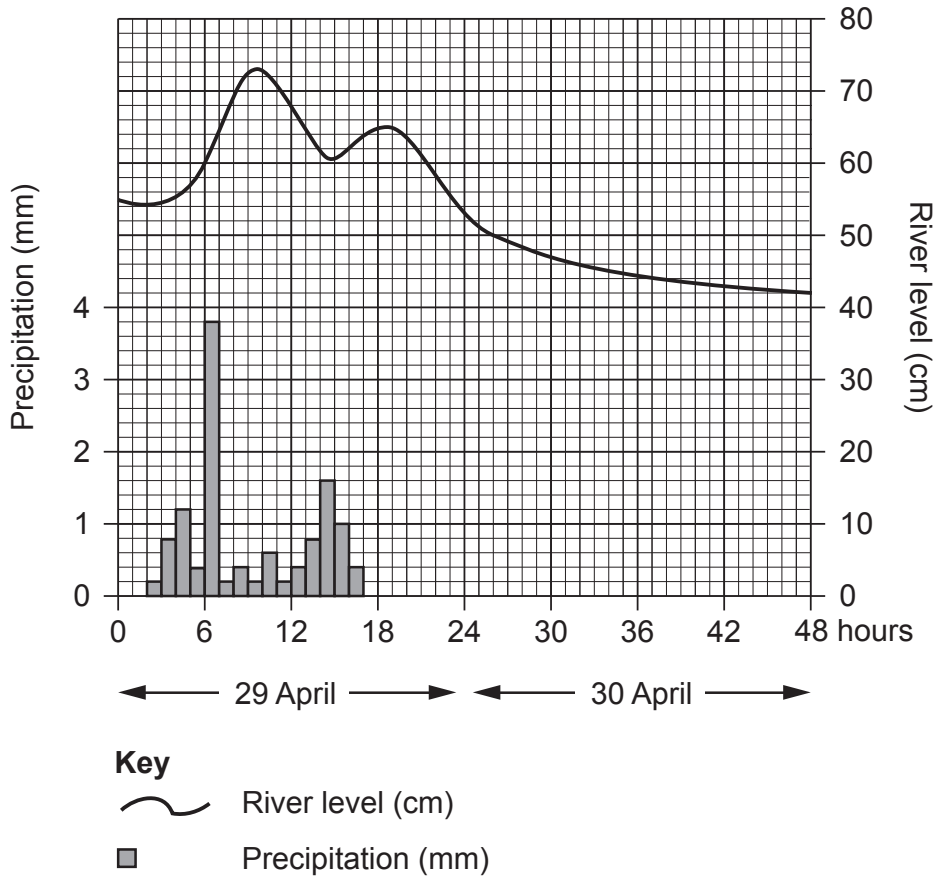
Question 1 – continued

(b) Study Diagram Q1.

Describe and **explain** the changing river levels on the River Nene at Northampton from 29th to 30th April 2012.

8

Diagram Q1: Flood Hydrograph for the River Nene in Northampton



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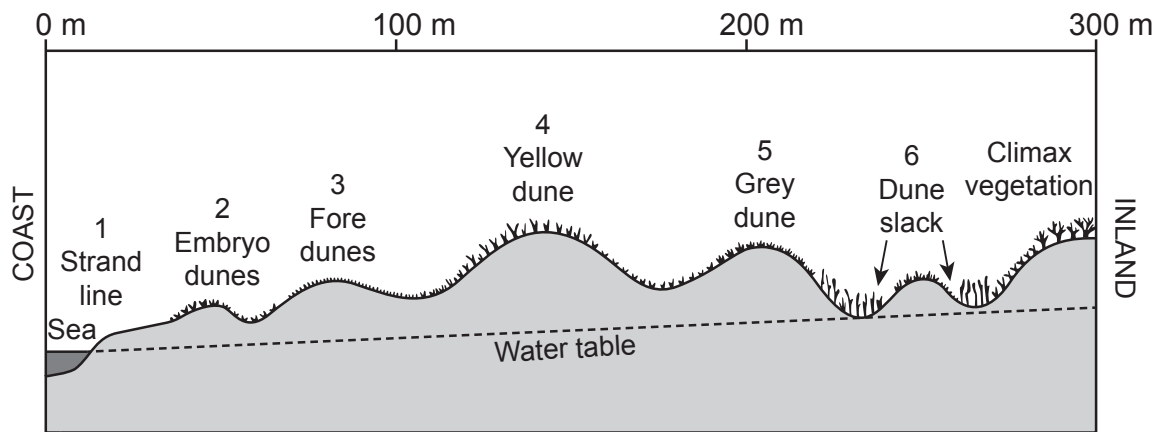
Question 2: Biosphere

(a) **Explain** in detail what is meant by the term climax vegetation. 4

(b) Study Diagram Q2.

Describe and **give reasons** for the changes in plant types likely to be present across the transect as you move from location 1 at the coast, inland to location 6. You should refer to named plant species in your answer. 14

Diagram Q2: Transect of Sand Dune System



Question 3: Rural Geography

(a) **Describe** and **explain** the main characteristics of the agricultural system for **intensive peasant** farming.

8

(b) For any **named** area of **commercial arable** farming:

(i) **describe** the changes in farming practices that have taken place in recent years; and

(ii) **discuss** the impact of these changes on people, the landscape and the environment.

10

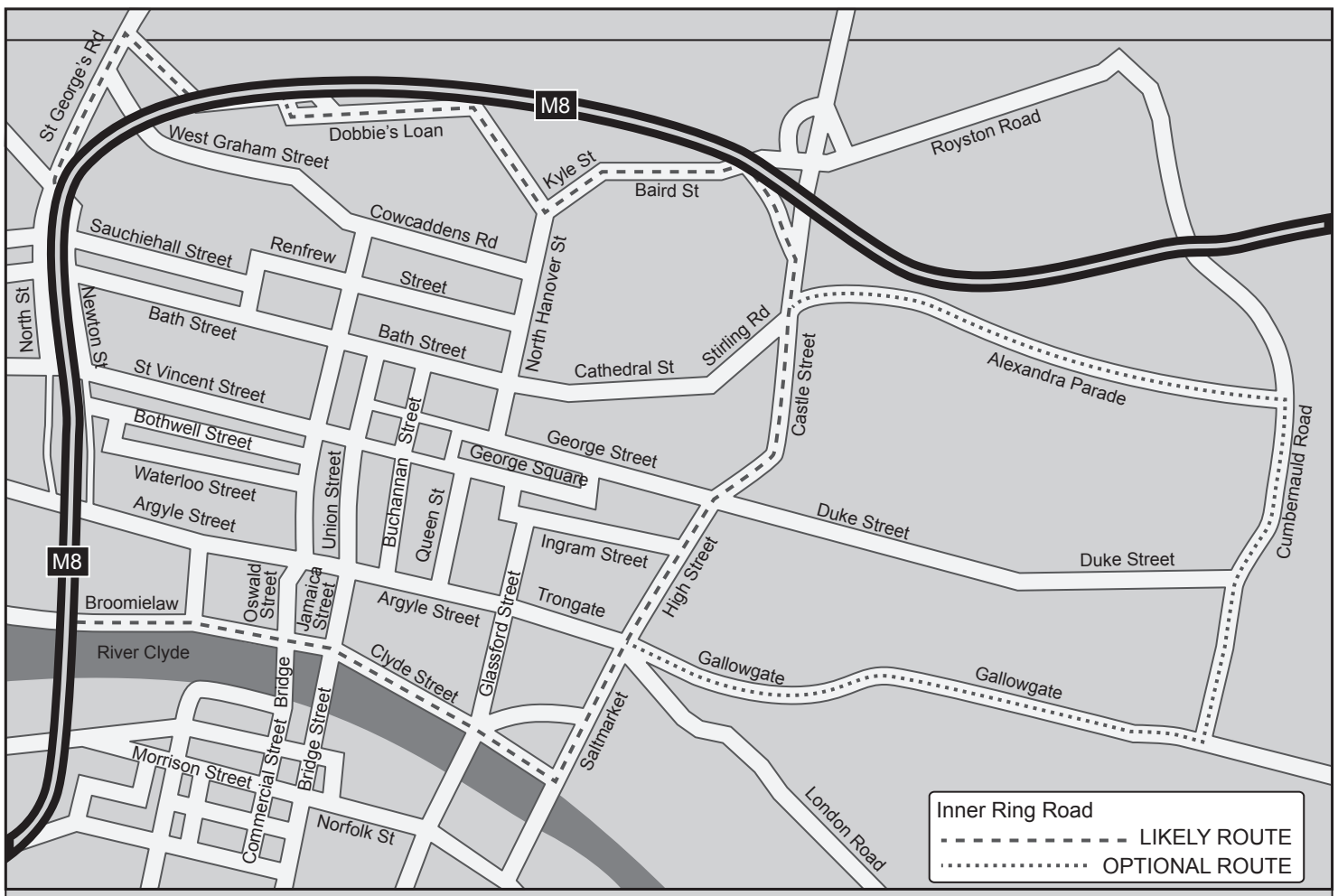
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Question 4: Urban Geography

- (a) For a **named** city which you have studied in the Developed World, **explain** the ways in which its site **and** situation contributed to its growth. 8
- (b) Study Map Q4.

For Glasgow, **or** any **named** developed world city you have studied, **describe** and **explain** schemes which have been introduced to reduce problems of traffic management in the Central Business District. 10

Map Q4: Inner-ring road plan to reduce traffic congestion in Glasgow's Central Business District



SECTION B: Answer ONE question from this section, ie either Question 5 or Question 6.

Question 5: Lithosphere

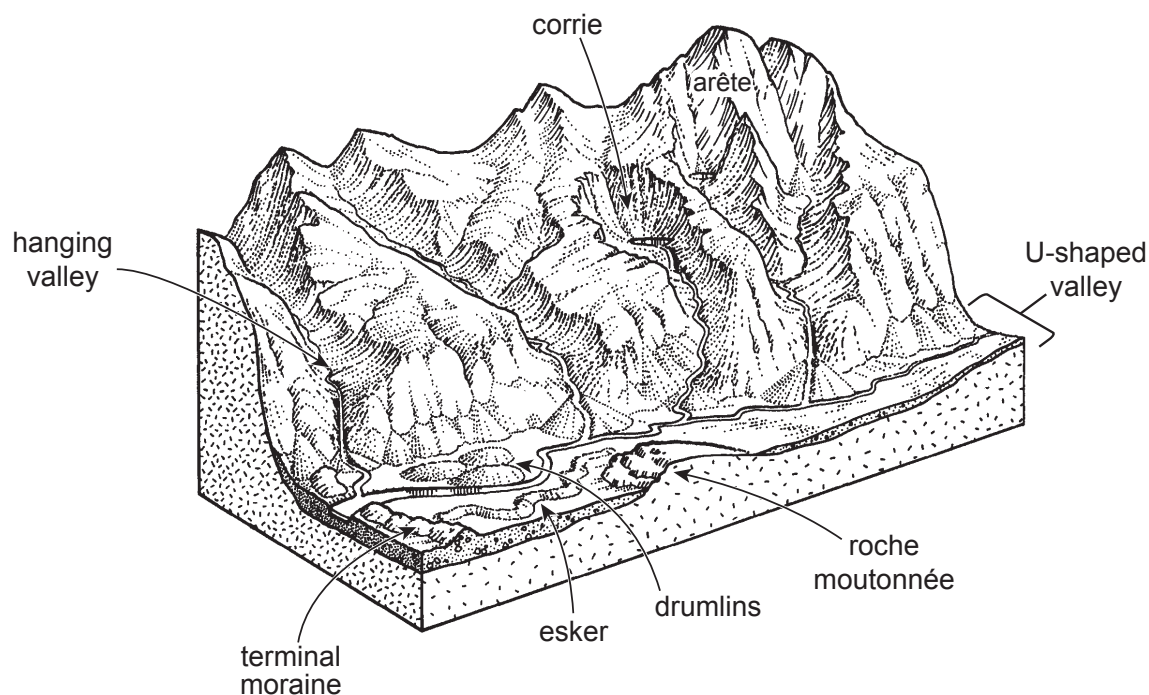
Study Diagram Q5.

Select **one** erosional landform and **one** depositional landform from Diagram Q5.

With the aid of annotated diagrams, **explain** the formation of each feature.

14

Diagram Q5: A Glaciated Landscape



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DO NOT ANSWER THIS QUESTION IF YOU HAVE ALREADY ANSWERED QUESTION 5

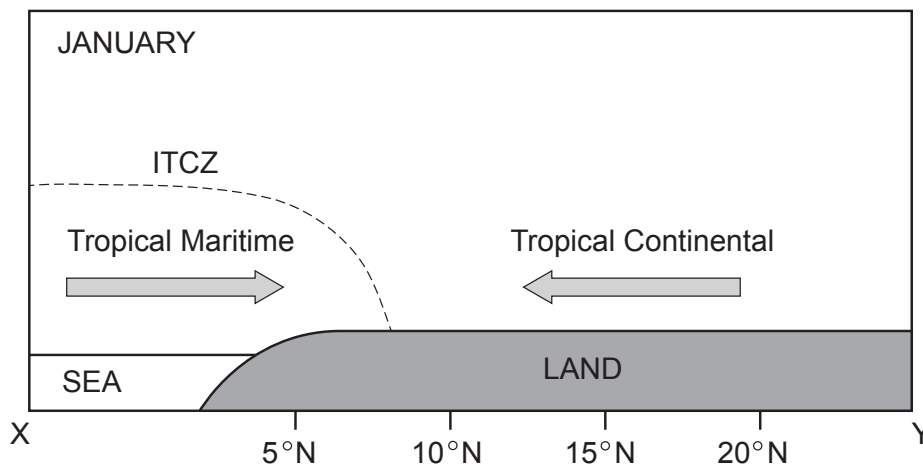
Question 6: Atmosphere

(a) Study Diagram Q6A and Map Q6A.

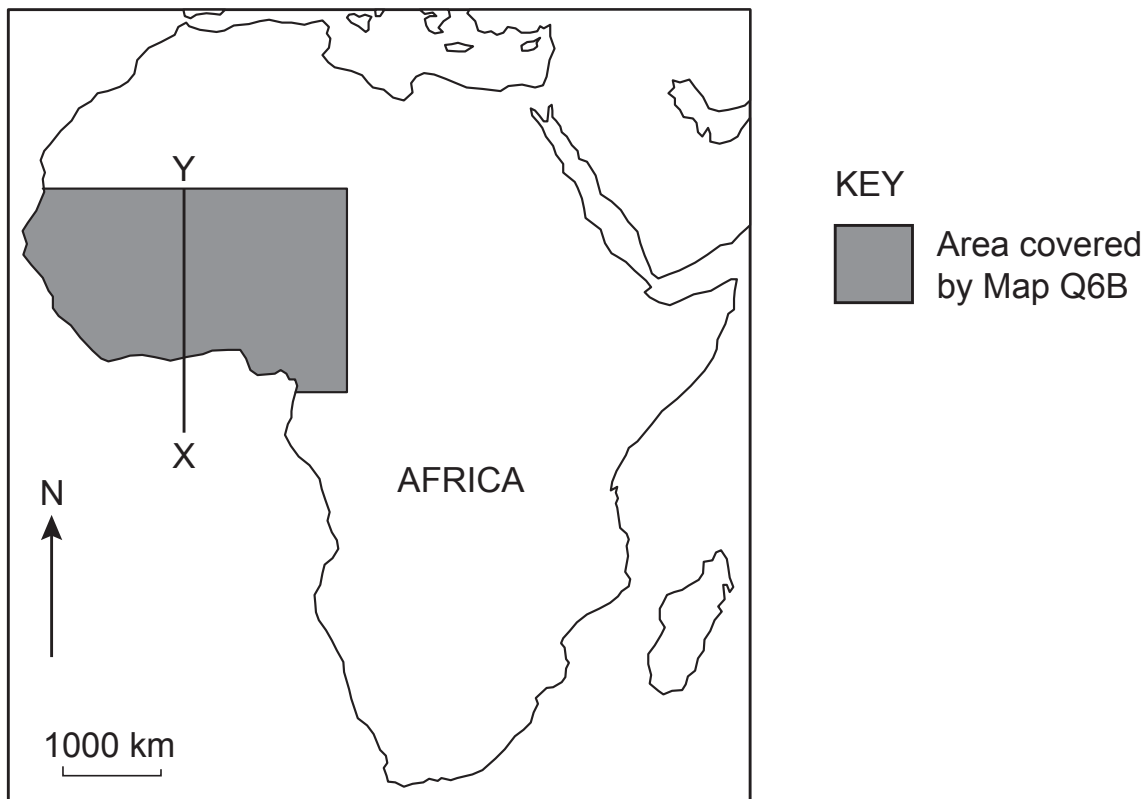
Describe the origin and characteristics of the Tropical Maritime and Tropical Continental air masses.

6

Diagram Q6A: The Inter-Tropical Convergence Zone (ITCZ)



Map Q6A: Location of section X–Y



DO NOT ANSWER THIS QUESTION IF YOU HAVE ALREADY ANSWERED QUESTION 5

Question 6 – continued

(b) Study Maps Q6A and Q6B and Diagram Q6B.

Referring to the position of the ITCZ, **describe** and **explain** the changing rainfall pattern as you move inland from Abidjan to Nioro.

8

Map Q6B: West Africa

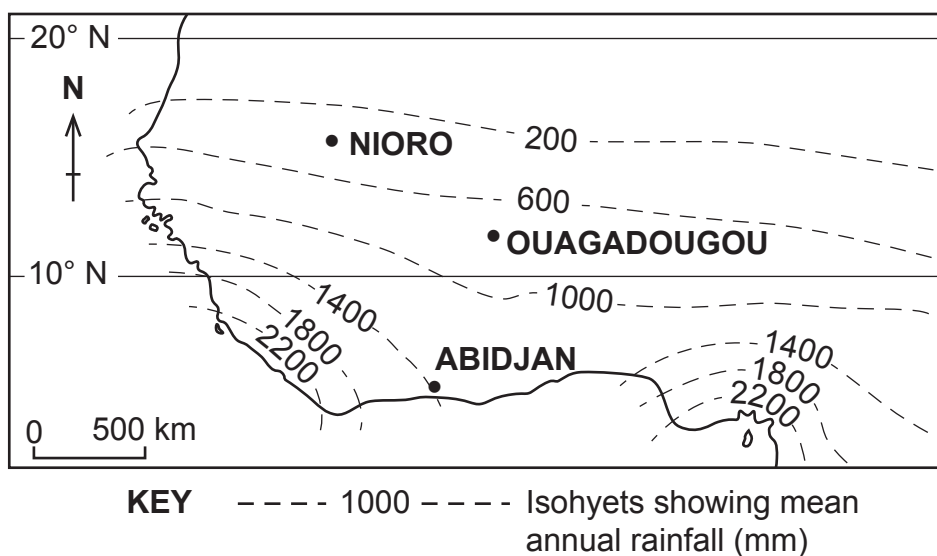
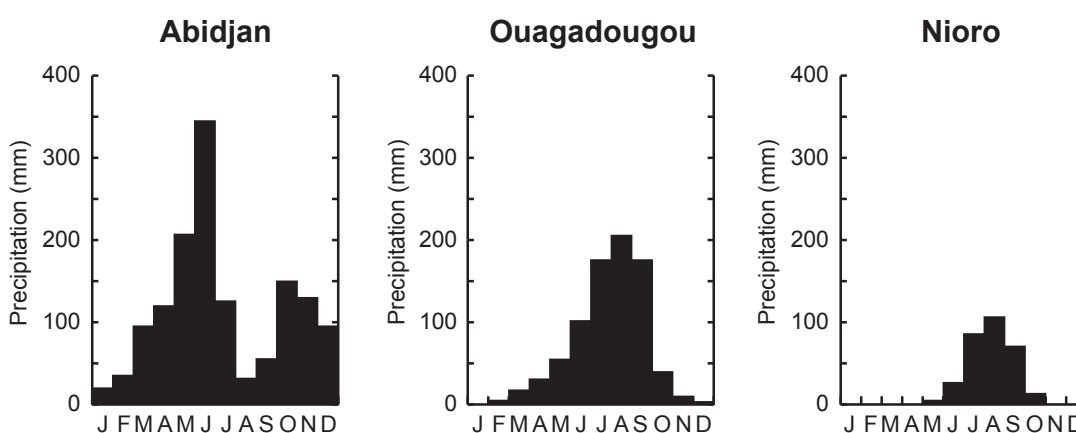


Diagram Q6B: West Africa — selected rainfall graphs



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**SECTION C: Answer ONE question from this section,
ie either Question 7 or Question 8.**

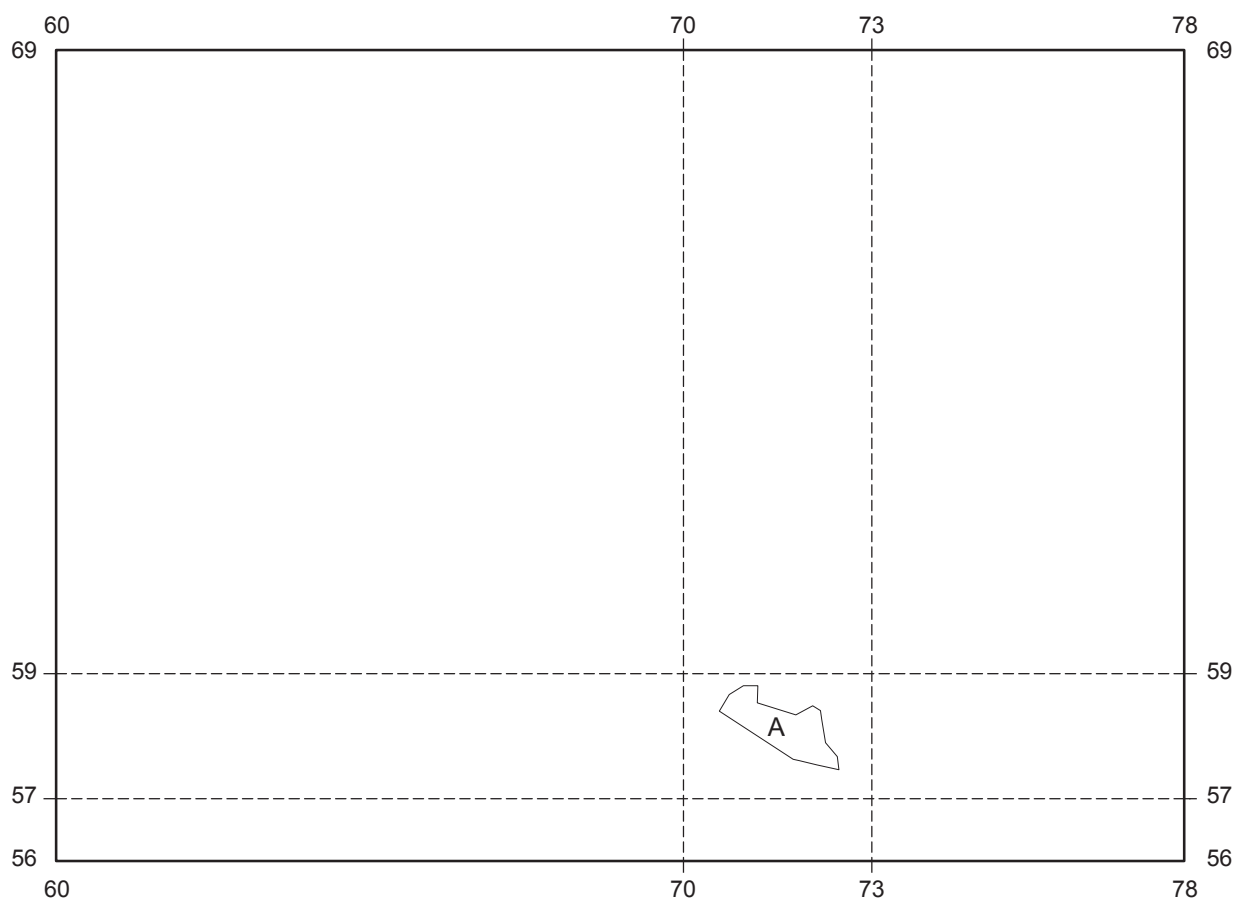
Question 7: Industrial Geography

(a) Study OS Map Extract number 2054/152: Northampton (*separate item*), **and** Map Q7.

Using map evidence, **describe** and **explain** the human factors that have encouraged **modern** industry to locate in area A.

8

Map Q7: Location of Swan Valley industrial area, Northampton



Question 7 – continued

(b) Study Table Q7.

Table Q7: % UK employment by broad sector

	1990	2020 (projection)
Primary sector and utilities	4	3
Manufacturing	17	7
Construction	8	7
Trade, accommodation and transport	27	26
Other services	44	57

“Changes in employment figures for the UK are similar to those of many old industrial areas of Western Europe.”

Referring to a **named** industrial concentration in the European Union, **explain** why these changes are occurring.

6

[Turn over for Question 8 on Page twelve

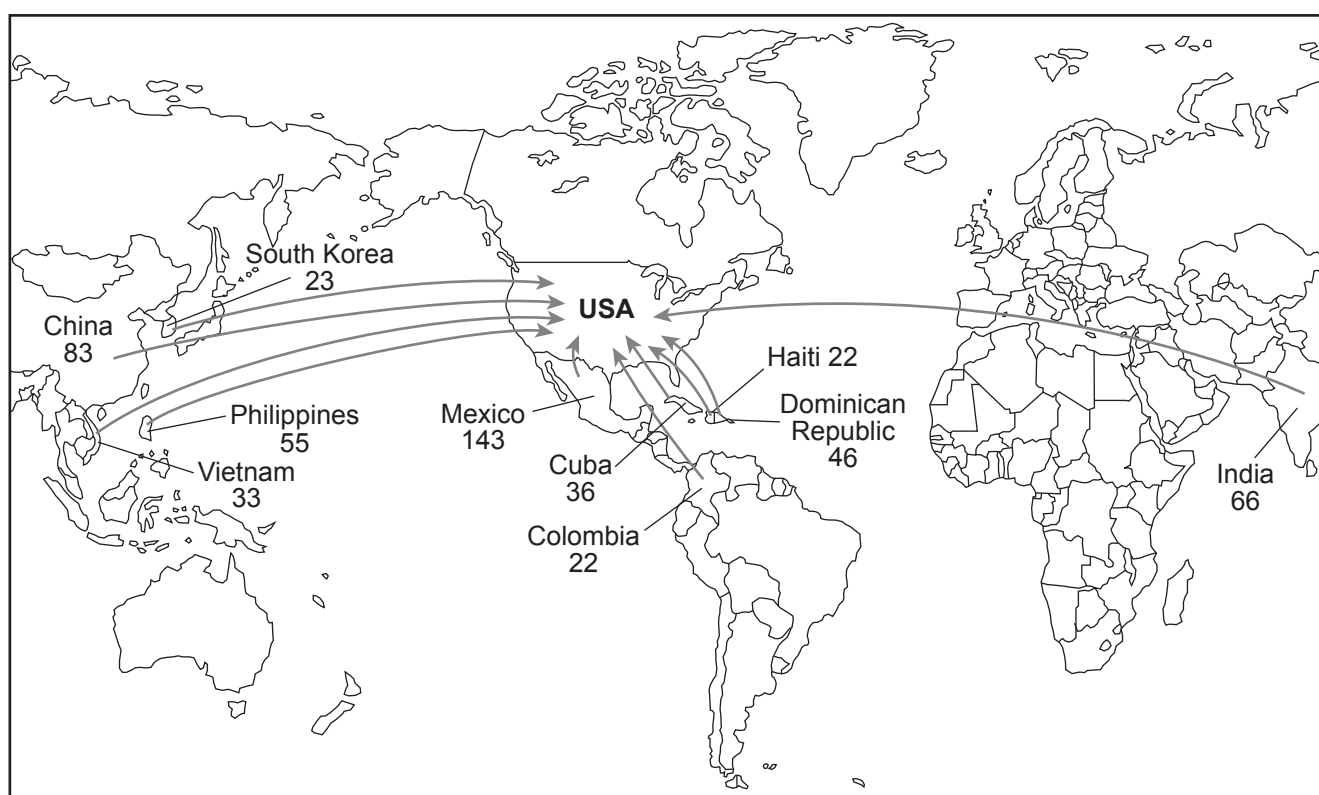
**DO NOT ANSWER THIS QUESTION IF YOU HAVE
ALREADY ANSWERED QUESTION 7**

Question 8: Population

Map Q8 shows the main origins of USA immigrants .

- (a) **Describe** and **suggest reasons** for the patterns shown on Map Q8. 6
- (b) With reference to an international migration you have studied **describe** the impact on **both** the donor **and** receiving country. 8

Map Q8: Origin of immigrants into the USA (number in thousands)



[END OF QUESTION PAPER]