National
Qualifications
2021 ASSESSMENT RESOURCE

X833/76/11

Geography
Physical and Human Environments

Duration — 1 hour 50 minutes

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.

SQA ©

X8337611

MARKS

SECTION 1 — PHYSICAL ENVIRONMENTS — 50 marks

Attempt ALL questions

Question 1

Diagram Q1 U-shaped valley

Look at Diagram Q1.

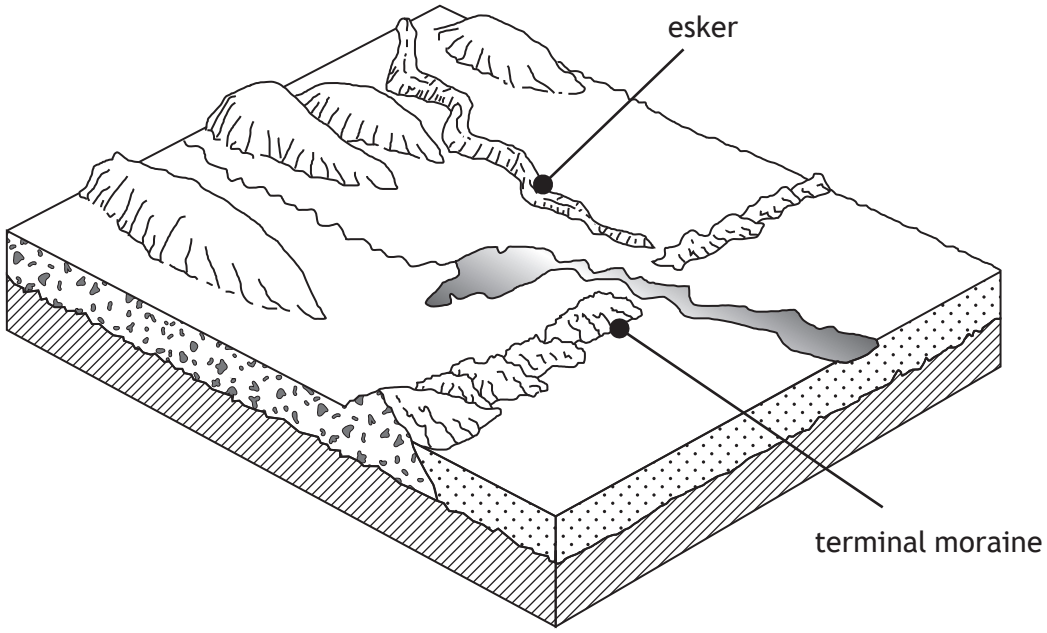
Explain the formation of a U-shaped valley. **10**

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

MARKS

Question 2

Diagram Q2 Landscape of glacial deposition



Look at Diagram Q2.

Eskers and terminal moraines are features found in landscapes of glacial deposition.

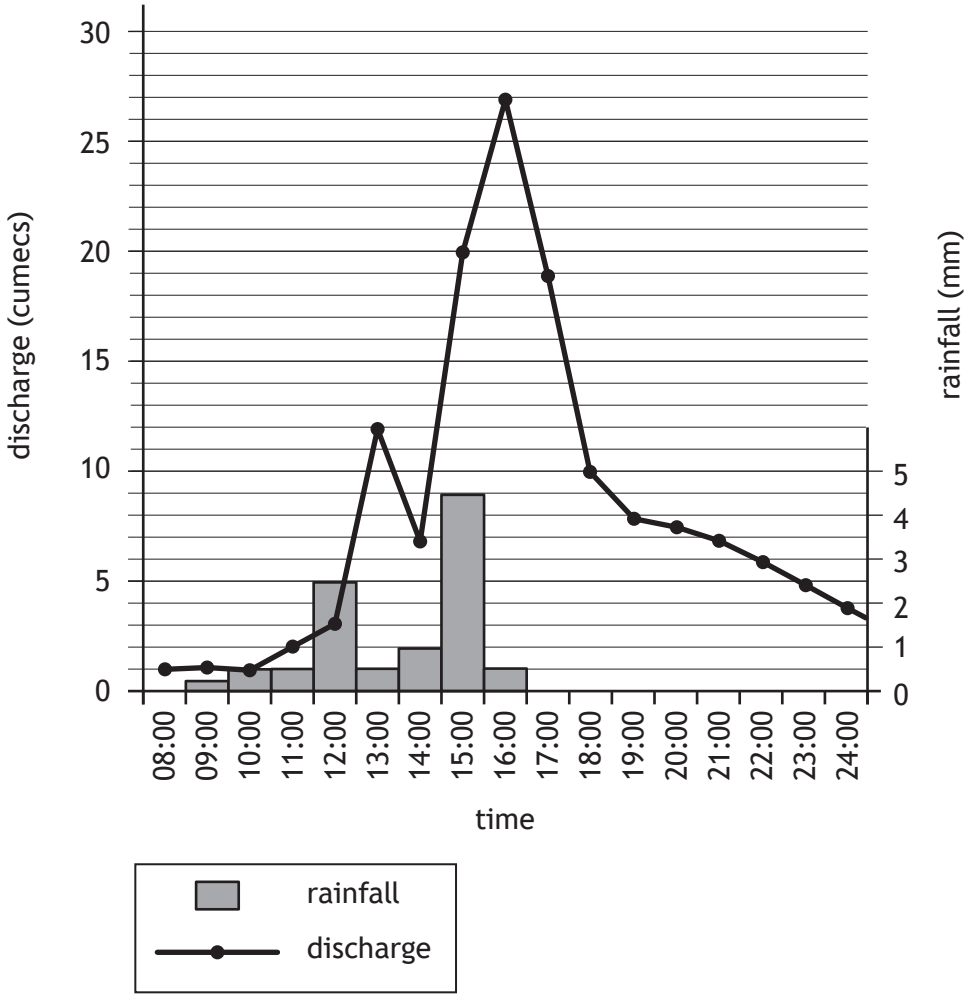
Explain the formation of **either** an esker **or** a terminal moraine. **6**
You may wish to use an annotated diagram or diagrams in your answer.

[Turn over

MARKS

Question 3

Diagram Q3 Flood hydrograph for the River Leen, Nottingham, 24th June, 2019



Study Diagram Q3.

For the River Leen on the 24th of June, 2019

(a) **describe** the changes in discharge **and**

(b) **suggest reasons** why these changes may have occurred. **10**

MARKS

Question 4

Diagram Q4 An ox-bow lake

Look at Diagram Q4.

Explain the formation of an ox-bow lake. **8**

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

[Turn over

MARKS

Question 5

Draw a fully annotated soil profile of a **brown earth** soil to show its main characteristics (including horizons, colour, texture and drainage), and associated vegetation. **8**

Question 6

Explain why there is a surplus of solar energy in the tropical latitudes and a deficit of solar energy towards the poles. **8**

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

MARKS

SECTION 2 — HUMAN ENVIRONMENTS — 50 marks

Attempt ALL questions

Question 7

Diagram Q7 Makoko, Lagos

Look at Diagram Q7.

Describe the socio-economic and environmental problems associated with housing in Makoko or any other shanty town in a developing world city you have studied. **6**

[Turn over

MARKS

Question 8

> 'Although the UK is undergoing a £23 billion overhaul of roads, its cities still face many transport issues.'

Many strategies have been implemented to manage transport in developed world cities. For a developed world city you have studied

(a) **describe** the strategies used **and**

(b) **explain** how these strategies manage transport problems. **8**

Question 9

> 'Land degradation affects more than one third of the world's population'

Referring to a rainforest **or** semi-arid area you have studied, **describe** the impacts of land degradation on people, the landscape and the economy. **10**

MARKS

Question 10

Diagram Q10 Cardigan Bay, Wales

Look at Diagram Q10.

With reference to a named coastal **or** glaciated area you have studied

(a) **describe** the measures taken to resolve the conflicts between different land users **and**

(b) **comment on** their effectiveness. **12**

[Turn over

MARKS

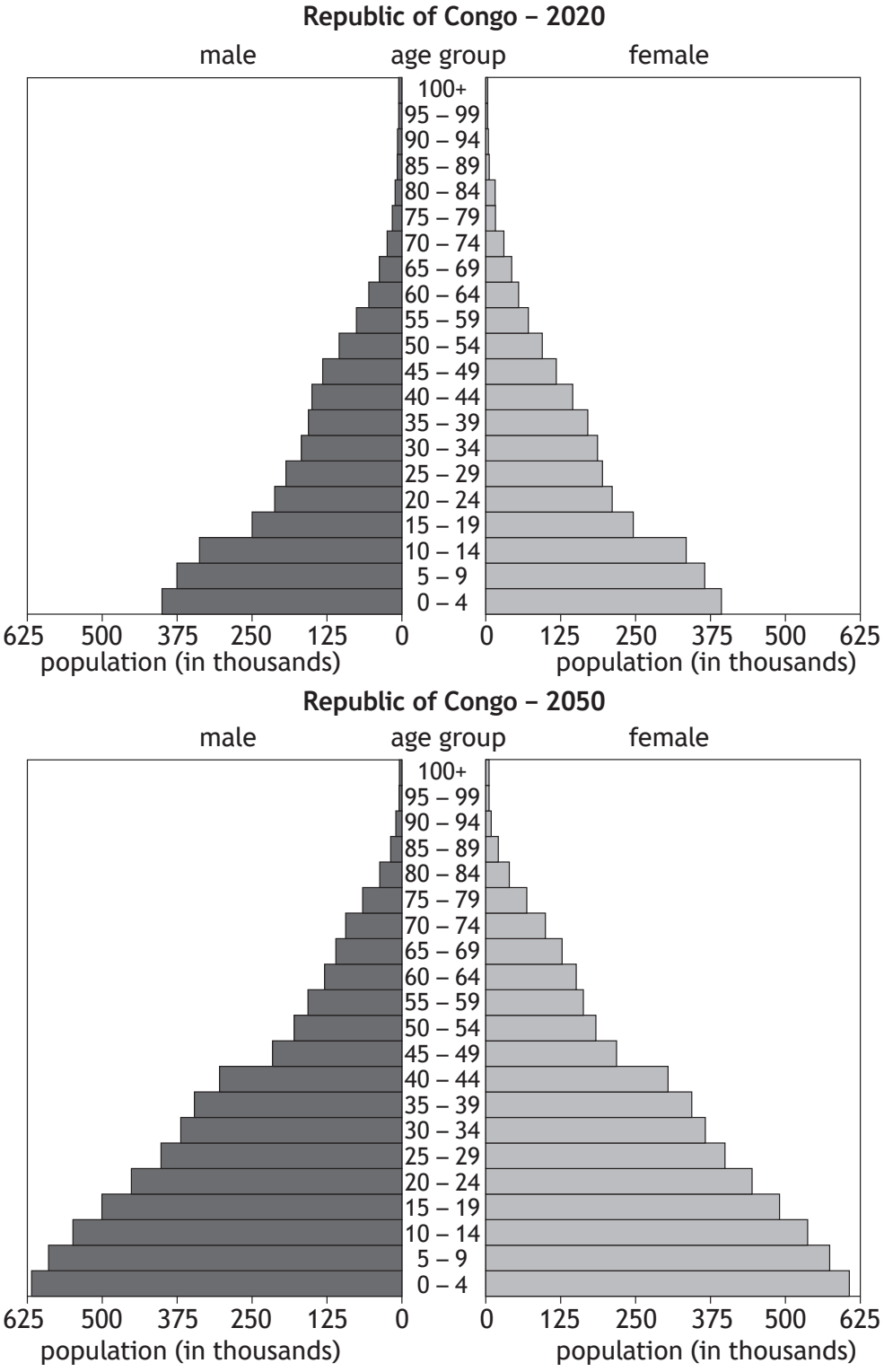
Question 11

> 'Migrants represented 9% of Scotland's population in 2019.'

For a named migration flow you have studied, **discuss** the impacts of immigration on the **receiving** country. **6**

Question 12

Diagram Q12 Population pyramids for Republic of Congo, 2020 and 2050 (projected)



Study Diagram Q12.

The Republic of Congo's population is projected to change over the next 30 years.

Discuss the possible consequences of these changes. **8**

[END OF QUESTION PAPER]

[BLANK PAGE]

DO NOT WRITE ON THIS PAGE

Acknowledgement of copyright

Diagram Q1 Kevin Eaves/Shutterstock.com

Diagram Q4 Image of oxbow lake by Matteo Nicolli. Reproduced by kind permission of Matteo Nicolli.

Diagram Q7 Angus MacKinnon/Shutterstock.com

Diagram Q10 Wozzie/Shutterstock.com