

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

INTERNATIONAL A-LEVEL GEOGRAPHY

Paper 3 Physical Geography 2

Wednesday 11 June 2025 07:00 GMT Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a ruler with millimetre measurements
- a calculator, which you are expected to use where appropriate.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do **not** write outside the box around each page or on blank pages.
- All working must be shown.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this answer book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may use a bilingual dictionary for this exam.
- You may **not** use an English dictionary.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
TOTAL	



Section A – Water, Carbon and Life on EarthAnswer **all** questions in the spaces provided.You must answer **all** questions in **Section A**.Only **one** answer per question is allowed.

For each question completely fill in the circle alongside the appropriate answer.

CORRECT METHOD



WRONG METHODS

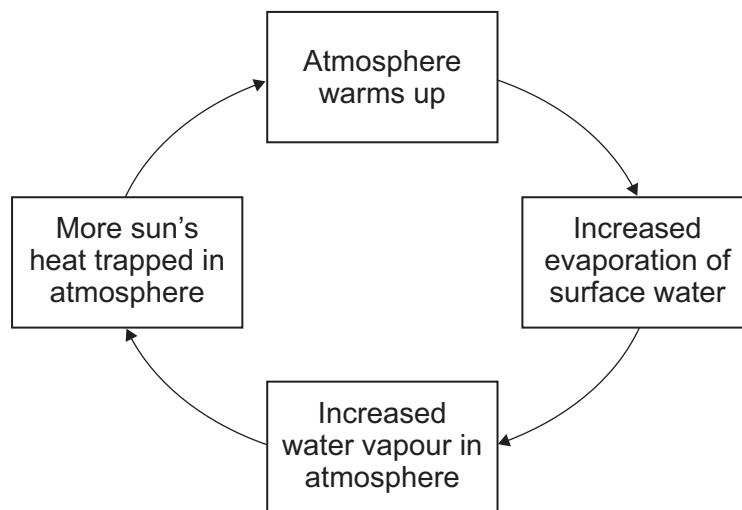


If you want to change your answer you must cross out your original answer as shown.



If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.

**0 1 . 1**Which of the following **all** decrease the amount of carbon in the atmosphere?**[1 mark]****A** Combustion; cutting down trees; weathering☐**B** Creating a park in a city; volcanic activity; weathering☐**C** Photosynthesis; planting trees; sequestration in oceans☐**D** Planting trees; sequestration in sediments; wildfires☐

Figure 1

0 1 . 2 Which of the following does **Figure 1** show?

[1 mark]

- A** Dynamic equilibrium ☐
- B** Negative feedback ☐
- C** Open system ☐
- D** Positive feedback ☐

0 1 . 3 Which of the following are **all** examples of stores in a drainage basin?

[1 mark]

- A** Evaporation; groundwater; vegetation ☐
- B** Groundwater; snow on ground; soil water ☐
- C** Interception; precipitation; river channel ☐
- D** Runoff; soil water; vegetation ☐

Turn over ►



0 1 . 4

Which of the following stores holds water, on average, for the **least** amount of time?

[1 mark]

A Atmosphere

☐

B Ice sheet

☐

C Lakes

☐

D Oceans

☐

0 1 . 5

'As animals breathe, they release carbon dioxide into the atmosphere, oceans and soils.'

What is this a definition of?

[1 mark]

A Biosphere

☐

B Lithosphere

☐

C Respiration

☐

D Transpiration

☐

5



Turn over for the next question

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ANSWER IN THE SPACES PROVIDED**

Turn over ►



0 5

Figure 2a shows the distribution of permafrost around the Arctic Ocean in 2020.

Figure 2b shows the predicted distribution of permafrost around the Arctic Ocean in 2050.

Figure 2c shows the predicted distribution of permafrost around the Arctic Ocean in 2070.

Permafrost is ground that is frozen for two or more years in a row. Permafrost is a store in the cryosphere.

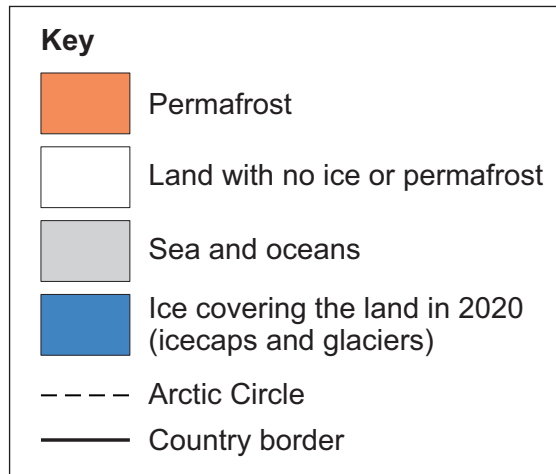


Figure 2a



Figure 2b

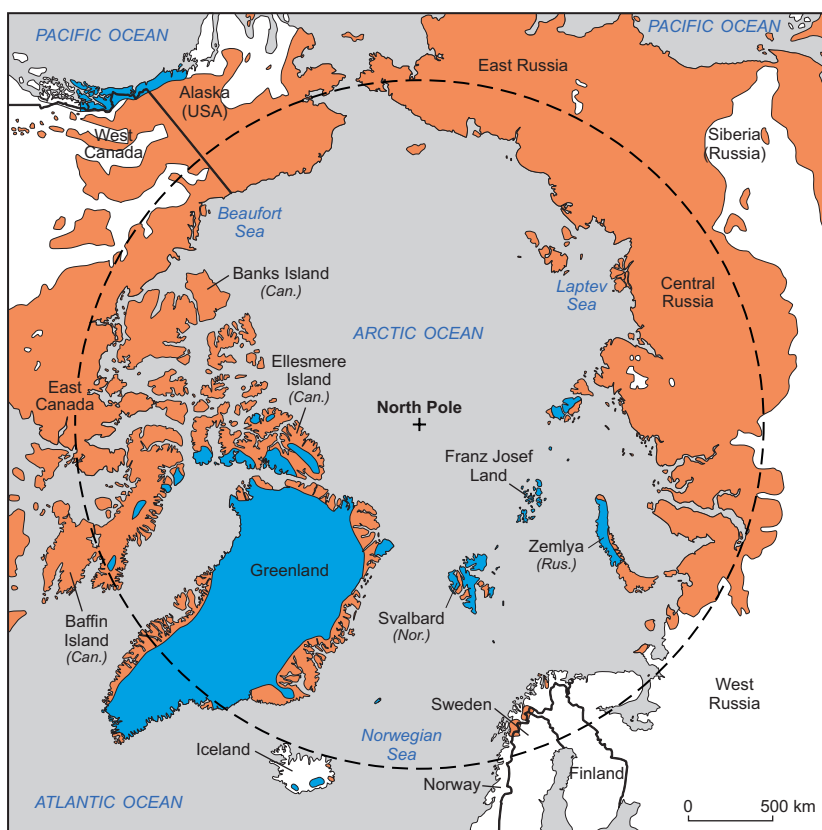
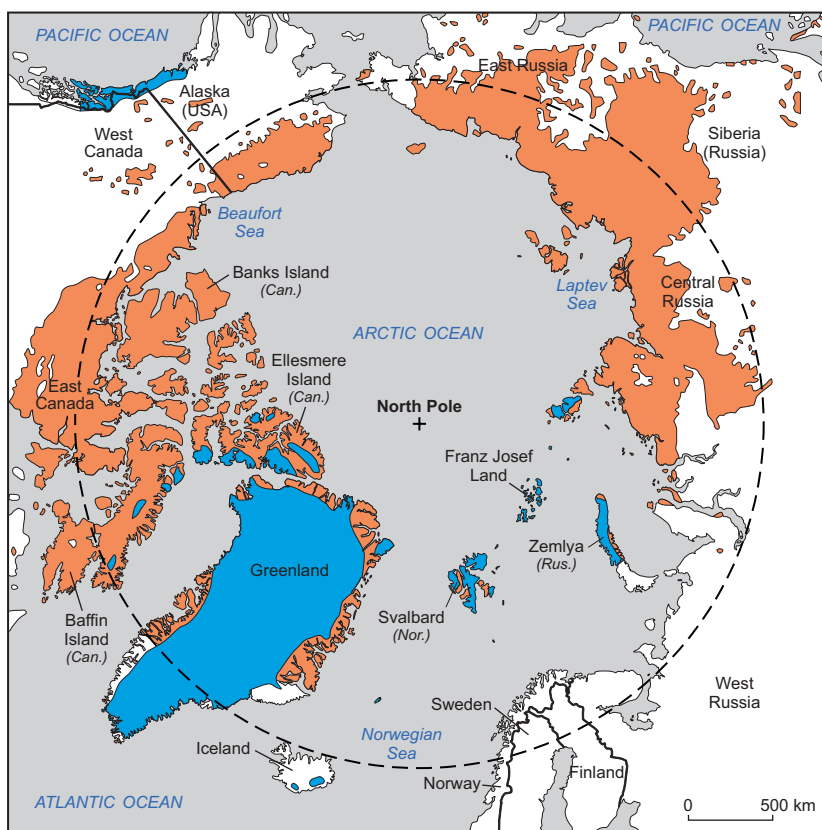


Figure 2c



Turn over ►



[6 marks]

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[9 marks]



9

[20 marks]

[illegible]

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END OF SECTION A



Turn over for Section B

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ANSWER IN THE SPACES PROVIDED**

Turn over ►



Section B – Ecosystems Under Stress

Answer **all** questions in the spaces provided.

You must answer **all** questions in **Section B**.

Only **one** answer per question is allowed.

For each question completely fill in the circle alongside the appropriate answer.

CORRECT METHOD



WRONG METHODS



If you want to change your answer you must cross out your original answer as shown.



If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.



0 5 . 1 Which **one** of the following defines 'fauna'?

[1 mark]

- A** The animals that are characteristic of an area
- B** The climate that is characteristic of an area
- C** The plants that are characteristic of an area
- D** The soil that is characteristic of an area

☐
☐
☐
☐

0 5 . 2 Which list correctly orders the stages along a food chain?

[1 mark]

- A** Primary consumer, primary producer, tertiary consumer, secondary consumer
- B** Primary producer, primary consumer, secondary consumer, tertiary consumer
- C** Primary producer, secondary consumer, tertiary consumer, primary consumer
- D** Tertiary consumer, secondary consumer, primary producer, primary consumer

☐
☐
☐
☐


0 5 . 3

Where are **all** terrestrial ecosystems found?

[1 mark]

- A** Across tropical regions ☐
- B** In salt water ☐
- C** Near fresh water ☐
- D** On land ☐

0 5 . 4

Which of the following are **all** flows/transfers in mineral nutrient cycling?

[1 mark]

- A** Biomass; decomposition; runoff ☐
- B** Decomposition; precipitation; uptake by plants ☐
- C** Leaf litter; runoff; weathering ☐
- D** Precipitation; soil; uptake by plants ☐

0 5 . 5

Where are **most** coral reefs located?

[1 mark]

- A** Between 5° north and 5° south of the equator ☐
- B** Between 30° north and 30° south of the equator ☐
- C** From 5° north to 20° north of the equator ☐
- D** From 5° south to 20° south of the equator ☐

5

Turn over ►



Figure 3a shows the number of threatened mammal species in 2018 by country.

A mammal is a type of animal.

Figure 3b shows the number of threatened bird species in 2018 by country.

Figure 3a

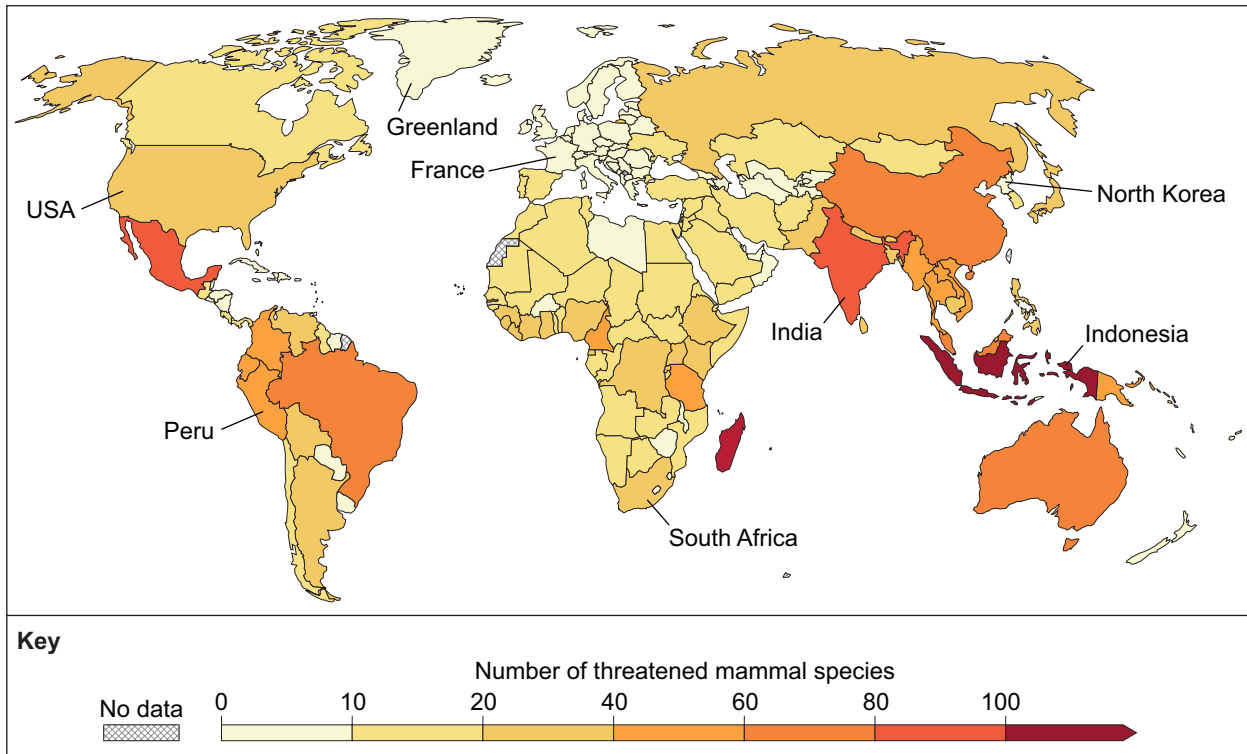
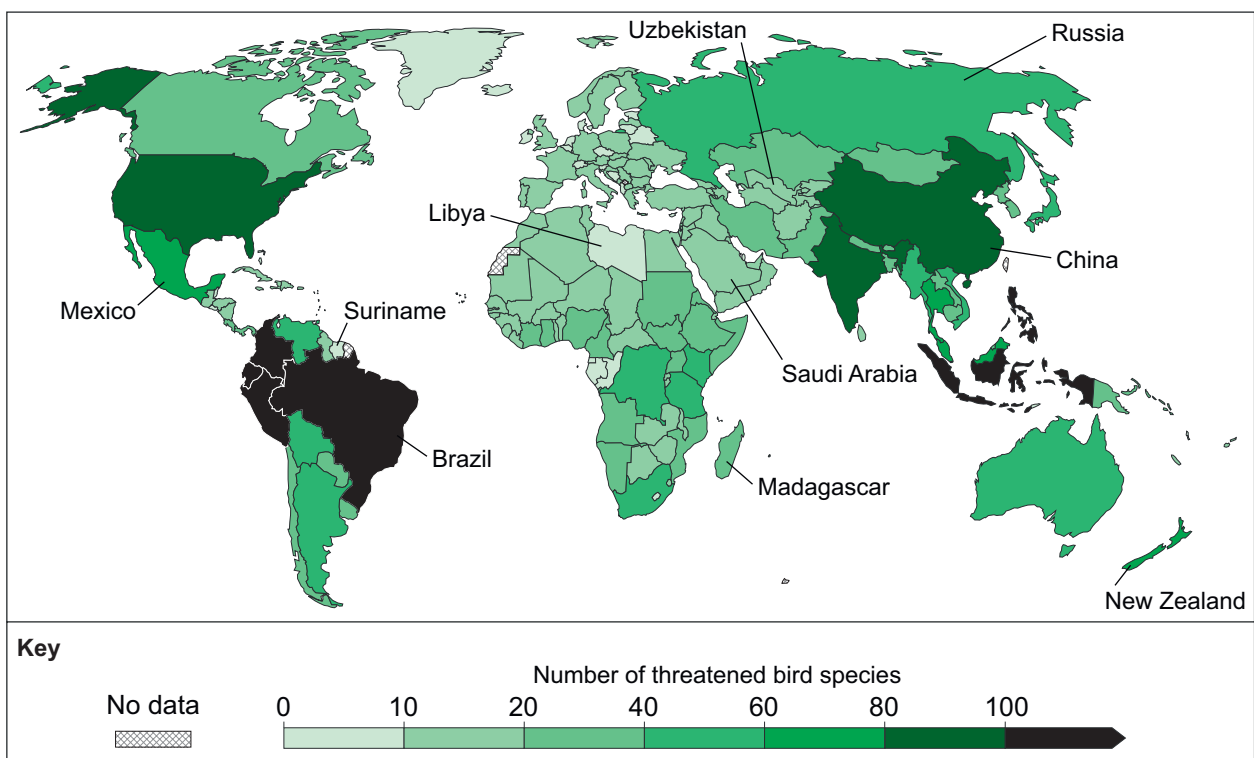


Figure 3b



[6 marks]

Extra space _____

6

Explain reasons why a vegetation succession may stop at a sub-climax.

[9 marks]

[illegible]

Extra space _____



‘Economic development in the tropical rainforest biome will result in a decline in its biodiversity.’

To what extent do you agree with this statement?

[20 marks]

Turn over ►



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20

END OF QUESTIONS



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ANSWER IN THE SPACES PROVIDED**



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