

Write your name here

Surname

Other names

Pearson Edexcel
Level 1/Level 2
GCSE (9–1)

Centre Number

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Candidate Number

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Geography A

Paper 1: The Physical Environment

Sample assessment material for first teaching
September 2016
Time: 1 hour 30 minutes

Paper Reference

1GA0/01

You must have:

Resource Booklet, calculator

Total Marks

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Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- In Section A answer question 1 and **two** questions from questions 2, 3 and 4.
- In Section B and Section C answer all questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 94.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are questions where the quality of your written communication will be assessed
– *you should take particular care on these questions with your spelling, punctuation, grammar and use of specialist terminology and grammar, as well as the clarity of expression.*
- The marks available for spelling, punctuation, grammar and specialist terminology are clearly indicated.

Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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SECTION A**The changing landscapes of the UK**

Answer all parts of question 1. Write your answers in the spaces provided.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 UK landscapes are constantly being changed by different processes.

(a) (i) State **one** example of a sedimentary rock.

(1)

- A** schist
- B** slate
- C** basalt
- D** chalk

(ii) State **one** characteristic of a sedimentary rock.

(1)

(b) Identify the location of **one** area of granite landscape in the UK.

(1)

- A** South Wales
- B** South west England
- C** East Anglia
- D** South east England

(c) (i) Farming is one example of an activity that affects the landscape.

State **one** other example of a human activity that affects the landscape.

(1)

(ii) Explain **one** way in which farming affects the landscape.

(2)

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(Total for Question 1 = 6 marks)

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**Answer only two questions from Question 2 (Coastal landscapes and processes),
Question 3 (River landscapes and processes)
and Question 4 (Glaciated upland landscapes and processes).**

Question 2: Coastal landscapes and processes

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

Coastal landscapes are constantly being changed by different processes.

2 (a) Study Figure 1 in the Resource Booklet.

(i) Identify **one** erosional landform shown in the coastal landscape on Figure 1. (1)

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(ii) State **one** type of biological weathering that might have an impact on this landscape. (1)

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(iii) Rip rap is an example of hard engineering.
Explain **one** way rip rap helps protect coastal landscapes. (2)

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(iv) Study Figure 2.

Examine how physical processes work together in the formation of the spit shown in Figure 2.

(8)

Area with horizontal dotted lines for writing the answer.

(Total for Question 2 = 12 marks)

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Question 3: River landscapes and processes

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

River landscapes are constantly being changed by different processes.

3 (a) Study Figure 3 in the Resource Booklet.

(i) Identify **one** landform in the river landscape shown in Figure 3.

(1)

(ii) State **one** type of chemical weathering that might have an impact on this river landscape.

(1)

(iii) Channelisation is an example of hard engineering.

Explain **one** way channelisation helps manage river landscapes.

(2)

(iv) Study Figure 4.

Examine how physical processes work together in the formation of the oxbow lake shown in Figure 4.

(8)

Area with horizontal dotted lines for writing the answer.

(Total for Question 3 = 12 marks)

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Question 4: Glaciated upland landscapes and processes**If you answer Question 4 put a cross in the box .**

Glaciated upland landscapes are constantly being changed by different processes.

4 (a) Study Figure 5 in the Resource Booklet.(i) Identify **one** landform in the glaciated landscape shown in Figure 5.

(1)

(ii) State **one** type of mechanical weathering that might have an impact on this glaciated upland landscape.

(1)

(iii) Tourism has both negative and positive effects on glaciated upland landscapes.

Explain **one** way that tourism has a negative effect on glaciated upland landscapes.

(2)

(iv) Study Figure 6.

Examine how physical processes work together in the formation of the drumlin shown in Figure 6.

(8)

Area with horizontal dotted lines for writing the answer.

(Total for Question 4 = 12 marks)

TOTAL FOR SECTION A = 36 MARKS

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SECTION B

Weather hazards and climate change

5 The UK's climate experiences significant variations.

(a) (i) State **one** natural cause of climate change in the past.

(1)

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(ii) State **two** sources of evidence for natural climate change in the past.

(2)

1

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(iii) Study Figure 7 in the Resource Booklet.

Calculate the range of average temperatures for the four locations in Figure 7.

(1)

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(iv) The prevailing wind, which is shown in Figure 7, influences the climate of the UK.

Explain **one** way prevailing wind affects the climate of the UK.

(3)

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(Total for Question 5 = 7 marks)

6 Extreme climate and weather conditions can create major hazards for people.

(a) Study Figure 8 in the Resource Booklet.

(i) Identify the location on the globe which has low pressure.

(1)

- A North Pole
- B 30° North
- C South Pole
- D 0° (the Equator)

(ii) Which of the following sources of geographical information would you select to investigate the weather conditions at location X?

(1)

- A average temperature graph
- B infrared satellite image
- C average rainfall graph
- D Saffir-Simpson magnitude data

(iii) Location Y experiences dry conditions.

Explain **one** reason why atmospheric circulation contributes to the climatic conditions at Y.

(3)

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(b) (i) Explain **one** human cause of drought.

(2)

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(ii) Suggest **one** impact of drought for people living in a developed country.

(3)

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(c) (i) Study Figure 9a.

Identify the feature shown at X.

(1)

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(ii) Study Figures 9b and 9c.

Explain **two** reasons for the link between sea surface temperatures and cyclone distribution.

(4)

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(d) Evaluate different responses to the **environmental** impacts of tropical cyclones in a named developed country.

(8)

Named **developed** country

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(Total for Question 6 = 23 marks)

TOTAL FOR SECTION B = 30 MARKS

SECTION C

Ecosystems, Biodiversity and Management

**Spelling, punctuation, grammar and specialist terminology
will be assessed in Question 7(d)(iii).**

7 Biodiversity is influenced by the interrelationship and interaction of biotic and abiotic factors.

(a) Define the term 'abiotic'.

(1)

(b) Study Figure A below.

(i) Complete the line graph in Figure A using data from the table below.

(3)

Height above sea level (m)	Vegetation type (ecosystem)
0–900	Tropical Rainforest
900–1800	Temperate Forest

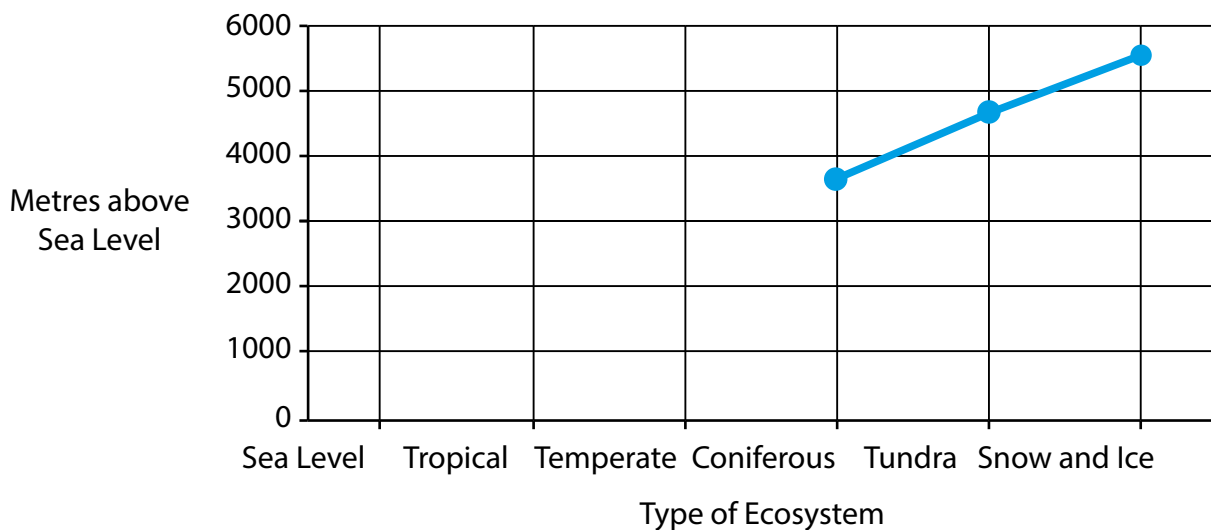


Figure A

Changes in large ecosystems up a mountain in South America

(ii) With reference to the line graph in Figure A, explain how changes in altitude affect the distribution of ecosystems.

(4)

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(c) Moorland is one of the UKs main terrestrial ecosystems.

(i) State **two** other UK terrestrial ecosystems.

(2)

(ii) Study Figure 10 in the Resource Booklet which shows an area of moorland in the UK.

Identify the feature at 075887.

(1)

(iii) Give the direction from the farm in 1189 to the nature reserve in 0887.

(1)

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(d) (i) State **two** goods or services provided by tropical rainforests.

(2)

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(ii) Explain **two** ways in which plants have adapted to living in a tropical rainforest.

(4)

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(iii) Study Figure 11 in the Resource Booklet.

Explain why there are differences in these nutrient cycles.

(4)

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In this question, 4 of the marks awarded will be for your spelling, punctuation and grammar and for your use of specialist terminology.

*(iv) Assess the following statement.

Climate change presents a greater threat to tropical rainforests than it does to deciduous woodlands.

(12)

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(Total for Question 7 = 34 marks)

TOTAL FOR SECTION C = 34 MARKS

TOTAL FOR PAPER = 94 MARKS

