

Please check the examination details below before entering your candidate information

Candidate surname					Other names				
Centre Number					Candidate Number				
Pearson Edexcel Level 1/Level 2 GCSE (9–1)					<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				
Tuesday 21 May 2019									
Afternoon (Time: 1 hour 30 minutes)					Paper Reference 1GA0/01				
Geography A Paper 1: The Physical Environment									
You must have: Resource Booklet (enclosed) Ordnance Survey Map Extract (enclosed), Calculator								Total Marks	

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.*
- Where asked you must **show all your working out** with **your answer clearly identified** at the **end of your solution**.

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.*
- The marks available for spelling, punctuation, grammar and use of specialist terminology are clearly indicated.

Advice

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

Turn over ►

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Pearson

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 The UK's physical landscape is made up of different rock types.

(a) Study Figure 1 in the Resource Booklet.

Identify rock type X.

(1)

- A Chalk
- B Granite
- C Sandstone
- D Limestone

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

(1)

(c) Explain **one** reason why areas of igneous rock are usually upland.

(2)

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(d) Study the Ordnance Survey (OS) map extract.

(i) Identify the main type of woodland in grid square 9047. (1)

(ii) Identify the six figure grid reference for the summit of Bossington Hill. (1)

A 901487

B 904485

C 908487

D 909485

(Total for Question 1 = 6 marks)



P 5 6 1 5 3 R A 0 3 2 8

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 .

2 Coastal landscapes are constantly being changed by different physical processes.

(a) Define the term **mass movement**.

(1)

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(b) Name **one** type of coastal landform created by deposition.

(1)

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(c) Explain **one** way rock type leads to the formation of headlands.

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(d) Study Figure 2 in the Resource Booklet.

Examine how coastal retreat has affected people and the environment in the landscape shown in Figure 2.

(8)

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Question 3: River Landscapes and Processes

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

3 River landscapes are constantly being changed by different processes.

(a) Define the term **river discharge**.

(1)

(b) Name **one** way sediment is transported by a river.

(1)

(c) Explain **one** way that deposition leads to the formation of levees.

(2)



P 5 6 1 5 3 R A 0 7 2 8

(d) Study Figure 3 in the Resource Booklet.

Examine how land use affected the storm hydrographs for River A and River B shown in Figure 3.

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(Total for Question 3 = 12 marks)



Question 4: Glaciated Upland Landscapes and Processes

If you answer Question 4 put a cross in the box .

4 Glaciated upland landscapes are constantly being changed by different processes.

(a) Define the term **relict glacial landscape**.

(1)

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(b) Name **one** type of mechanical weathering process that operates on glacial landscapes.

(1)

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(c) Explain **one** way that farming can have an impact on glaciated landscapes.

(2)

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(d) Study Figures 4a and 4b in the Resource Booklet.

Examine the role of erosional processes in the formation of the corrie shown in Figures 4a and 4b.

(8)

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TOTAL FOR SECTION A = 30 MARKS

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SECTION B

Weather Hazards and Climate Change

Answer ALL questions in this section. 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 ☒.

- 5 The Earth's atmosphere is constantly in motion.
 - (a) Study Figure 5a below.

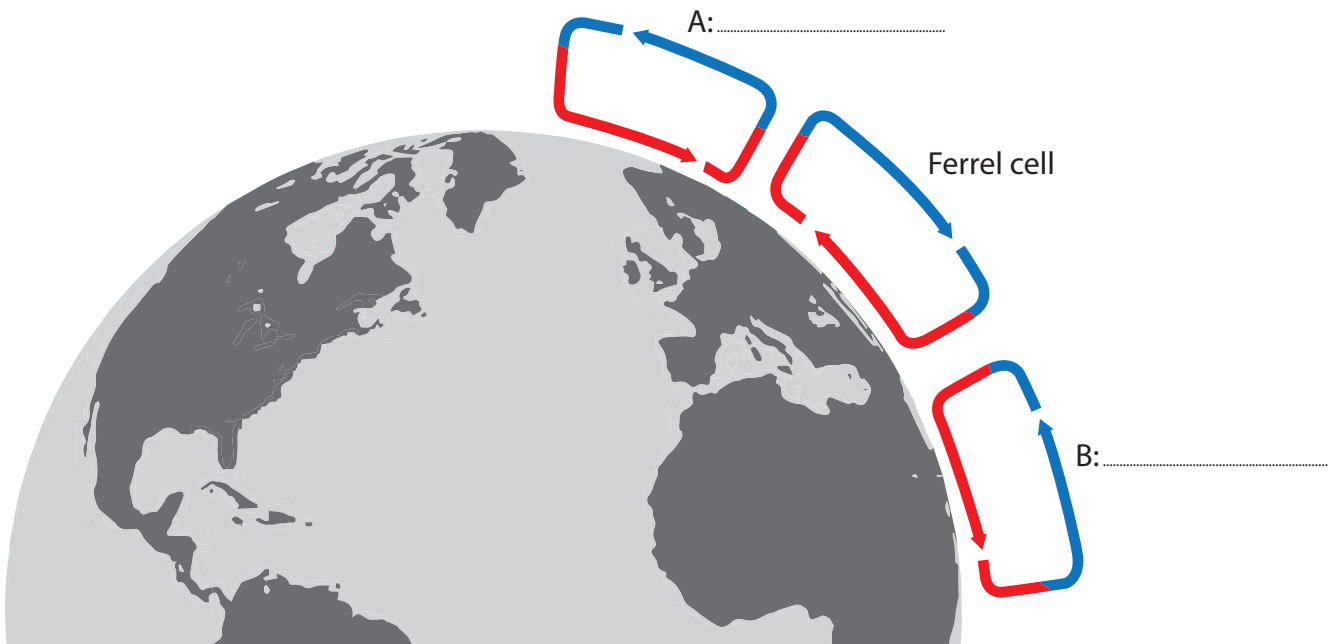


Figure 5a

The global atmospheric circulation cells in the northern hemisphere

Complete Figure 5a by labelling cells A and B.

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(b) Study Figure 5b in the Resource Booklet.

(i) Identify the month with the highest heat energy at 60 °N.

(1)

- A February
- B March
- C April
- D June

(ii) Identify the maximum monthly heat energy at 0°N (equator).

(1)

- A 110W/m²
- B 390W/m²
- C 430W/m²
- D 470W/m²

(c) Explain **one** reason why more heat energy is received at the Equator than at the poles.

(3)

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(Total for Question 5 = 7 marks)

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6 The global climate was different in the past and continues to change due to natural causes.

(a) Study Figure 6a in the Resource Booklet.

(i) Calculate the range of temperatures shown in Figure 6a.

You must show your working in the space below.

(2)

..... °C

Historical records such as Figure 6a provide evidence of natural climate change.

(ii) State **two** other pieces of evidence of natural climate change.

(2)

1

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(b) Explain **one** way in which the Milankovitch cycles can affect global temperature.

(3)

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(c) Tropical cyclones develop under specific conditions and in certain locations.

(i) Study Figure 6b in the Resource Booklet.

Identify the feature labelled **X** on Figure 6b.

(1)

(ii) Calculate the diameter of the tropical cyclone (shown by the line Y-Z) on Figure 6b.

You must show your workings in the space below.

(2)

..... km

(iii) Identify which country is regularly affected by tropical cyclones.

(1)

- A** Indonesia
- B** Finland
- C** Peru
- D** New Zealand



P 5 6 1 5 3 R A 0 1 7 2 8

(d) Hurricane Matthew was the first Category 5 Atlantic hurricane since 2007.

Study Figures 6c and 6d in the Resource Booklet.

With reference to Figures 6c and 6d, suggest **two** reasons for the different impacts of Hurricane Matthew on Florida (USA) and Haiti.

(4)

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(e) Assess the following statement.

'Drought is mainly due to natural causes.'

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(Total for Question 6 = 23 marks)

TOTAL FOR SECTION B = 30 MARKS

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SECTION C

Ecosystems, Biodiversity and Management

Answer ALL questions in this section. 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 ☒.

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

7 Tropical grassland and tropical rainforest are both examples of large-scale global ecosystems.

(a) Study Figure 7a below.

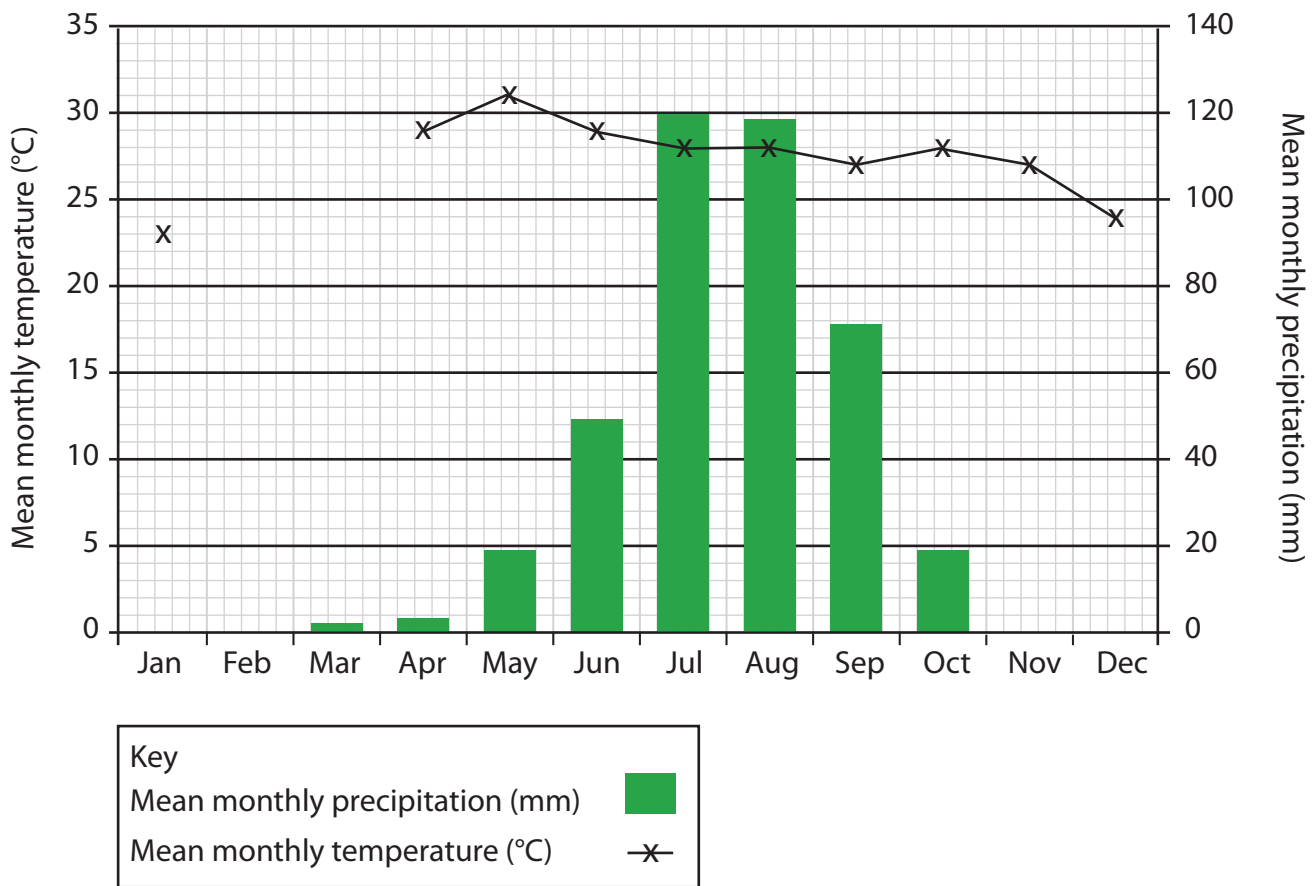


Figure 7a

Climate graph for Nyala, Sudan (Tropical Grassland)

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- (i) Plot the temperatures for February and March to complete the line graph shown in Figure 7a. Use the information in the data table below.

(3)

	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
Monthly Temperature (°C)	23	25	29	29	31	29	28	28	27	28	27	24

- (ii) Calculate the mean monthly temperature using the data table.

Answer to one decimal place.

You must show your working in the space below.

(2)

..... °C

- (iii) Identify the median temperature shown on Figure 7a.

(1)

- A** 26.5 °C
- B** 27.0 °C
- C** 27.5 °C
- D** 28.0 °C



P 5 6 1 5 3 R A 0 2 3 2 8



(b) Explain **two** ways climate can influence the distribution of large-scale ecosystems. (4)

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(c) With reference to Figure 7b in the Resource Booklet, explain **one** way human activity can damage marine ecosystems in the UK. (2)

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(d) The tropical rainforest nutrient cycle is very rapid.

Explain **one** reason why the litter store is usually very small in tropical rainforests.

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(e) Study Figure 7c in the Resource Booklet.

Suggest **one** economic cause for the changes to the tropical rainforest shown on Figure 7c.

(3)

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(f) Explain **two** ways that tropical rainforests can be managed sustainably.

(4)

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In this question, up to four additional marks will be awarded for your spelling, punctuation, grammar and use of specialist terminology.

(g) Evaluate the impact of physical and human factors on the biodiversity of deciduous woodland ecosystems.

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(Spelling, punctuation, grammar and use of specialist terminology = 4 marks)
(Total for Question 7 = 34 marks)

TOTAL FOR SECTION C = 34 MARKS
TOTAL FOR PAPER = 94 MARKS

