Please check the examination deta	ils bel	ow before ente	ring your candidate information
Candidate surname			Other names
Pearson Edexcel Level 1/Level 2 GCSE (9–1)	Cen	tre Number	Candidate Number
Time 1 hour 30 minutes		Paper reference	1GA0/01
Geography A PAPER 1: The Physical	En	vironme	nt
You must have: Resource Booklet, 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.
- Good luck with your examination.

Turn over ▶



P65391RA
©2021 Pearson Education Ltd.
1/1/1/1/1/1/1/1/1/1/1



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 \boxtimes . If you change your mind about an answer, put a line through the box \boxtimes and then mark your new answer with a cross \boxtimes .

- 1 The UK's landscape is made up of different rock types.
 - (a) (i) Identify which **one** of the following is a metamorphic rock.

(1)

- A chalk
 B granite
 C sandstone
 D slate
- (ii) State **one** characteristic of a metamorphic rock.

(1)

- (b) Study Figure 1 in the Resource Booklet.
 - (i) Calculate the distance along the line between X and Y.

You must show your working in the space below.

Answer to **one** decimal place.

(2)

.. km



(ii) Suggest one reason why there are few settlements in the area shown in Figure 1.	
	You must use map evidence in your answer.	(2)
	(Total for Question 1 = 6 ma	rks)

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

lf y	ou answer	Question 2	put a cross	in	the box	X	
------	-----------	-------------------	-------------	----	---------	---	--

- 2 Coastal landscapes are constantly being changed by different processes.
 - (a) Study Figure 2a in the Resource Booklet.

Identify landform X.

(1)

- A cave
 B spit
 C stack
 D wave cut platform
- (b) Name **one** process of sediment transport.

(1)

(c) Explain **one** reason why some cliffs erode faster than others.





(d)	Study Figure 2b in the Resource Booklet.	
	Examine the advantages and disadvantages of the different coastal defences shown in Figure 2b.	
		(8)



(Total for Quest	ion 2 = 12 marks)

		Question 3: River Landscapes and Processes	
		If you answer Question 3 put a cross in the box $ \square $.	
Riv	er lands	capes are constantly being changed by different processes.	
(a)	Study F	igure 3a in the Resource Booklet.	
	Identify	/ landform Y .	(1)
	×	A interlocking spur	
	×	B gorge	
	×	C point bar	
	×	D river cliff	
(c)	Explain	one reason why river discharge changes along the course of a river.	(2)
(c)	Explain	one reason why river discharge changes along the course of a river.	(2)
(c)	Explain	one reason why river discharge changes along the course of a river.	(2)
		one reason why river discharge changes along the course of a river.	

Examine the effects of the river flooding shown in Figure	s 3b and 3c on people
and the environment.	(8)
	(0)

(Total for Question 3 = 12 marks)

		Question 4: Glaciated Upland Landscapes and Processes	
		If you answer Question 4 put a cross in the box $ igsim $	
Gl	aciated	upland landscapes are constantly being changed by different process	ses.
(a)) Study	Figure 4a in the Resource Booklet.	
	ldent	fy landform Z .	(1)
	×	A corrie	
	×	B drumlin	
	×	C hanging valley	
	×	D terminal moraine	
(b) Name	e one weathering process.	(1)
(c)) Expla	in one reason why a glacier may deposit some of its load.	(2)

Examine how human activities may have impacted on the glaciated upland	
landscape shown in Figure 4b.	
	(8)



TOTAL FOR SECTION A = 30 MARKS

(Total for Question 4 = 12 marks)	

SECTION B

Weather Hazards and Climate Change

Answer ALL questions. Write your answers in the spaces provided.

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

- **5** The UK climate varies from place to place.
 - (a) Define the term **prevailing wind**.

(1)

(b) Study Figure 5a below.

	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
Mean monthly temperature (°C)	7	7	9	12	15	18	19	19	17	14	10	7

Figure 5a

Mean monthly temperatures in London, England

Calculate the median monthly temperature in London.

You must show your working in the space below.

		°(
		~(



- (c) Study Figure 5b in the Resource Booklet.
 - (i) Identify the mean annual rainfall at X.

(1)

- A 601-700 mm
 B 801-1000 mm
 C 1251-1500 mm
 D 2001-3000 mm
- (ii) Explain **one** reason why the amount of rainfall varies within the UK.

Use evidence from Figure 5b in your answer.

(3)

(Total for Question 5 = 7 marks)

Global climate continues to change due to natural causes. (a) Study Figure 6a in the Resource Booklet. (i) Calculate the range of the solar energy shown in Figure 6a. You must show your working in the space below. Answer to **one** decimal place. (2)(ii) Explain **one** reason why the amount of solar energy received by the Earth changes over time. (2) (b) Global climate is now changing due to human activity.

Study Figure 6b below.

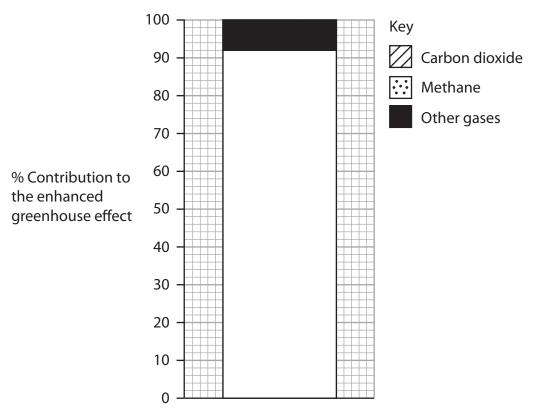


Figure 6b

Contribution of different gases to the enhanced greenhouse effect in 2015

(i) Complete Figure 6b by plotting the data below.

Gas	% contribution to the enhanced greenhouse effect	
Carbon dioxide	76	
Methane	16	

(ii) Explain one negative effect that climate change is having on people.	(2)
(c) Tropical cyclones (hurricanes and typhoons) are extreme weather events that develop under specific conditions.	
Study Figure 6c in the Resource Booklet.	
Suggest one reason why the frequency of hurricanes varies monthly in the North Atlantic region.	
Use evidence from Figure 6c in your answer.	(3)
Use evidence from Figure 6c in your answer.	(3)
Use evidence from Figure 6c in your answer.	(3)
Use evidence from Figure 6c in your answer.	(3)
Use evidence from Figure 6c in your answer.	(3)
Use evidence from Figure 6c in your answer.	(3)
Use evidence from Figure 6c in your answer.	(3)
Use evidence from Figure 6c in your answer.	(3)



(4)

(d) Study Figure 6d below.

Final death toll in Mozambique may top 1000

UK government donates £6 million in aid to help cyclone survivors

Cholera outbreak fuels death toll in cyclone-hit city

Lorry companies forced to divert around cyclone hit countries

Many people go hungry as they are without food and shelter

Businesses suffer as electricity pylons are uprooted

Figure 6d

Headlines following Tropical Cyclone Idai, March 2019

Suggest **two** different economic impacts of Tropical Cyclone Idai. Use evidence from Figure 6d in your answer.

1	
2	

The impacts of drought are much grean developed countries.	ter in developing or emerging countries than
	(8)
	(Total for Question 6 = 23 marks)



SECTION C

Ecosystems, Biodiversity and Management

Answer ALL questions. Write your answers in the spaces provided.

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

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

- **7** Large-scale ecosystems (biomes), such as deserts, are found in different parts of the world.
 - (a) Study Figure 7a in the Resource Booklet.
 - (i) Identify the correct statement.

(1)

- A The temperature is highest in May.
 B The maximum monthly temperature is 36°C.
 C The temperature is lowest in November.
 D The minimum monthly temperature is 18°C.
- (ii) Calculate the mean monthly precipitation shown in Figure 7a.

You must show your working in the space below.

Answer to **two** decimal places.

(2)

mm



people.	y that the biosphere is providing resources for	(4)
Figure 7b		(4)
Figure 7c		
a) The LIV has its own variety of di		
(i) State one terrestrial ecosyste	stinctive ecosystems that it relies on. em in the UK.	
(,, -,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(1)
(II) Explain one reason why UK	marine ecosystems are an important resource.	(2)

(d) The area of deciduous woodlands is increasing in some parts of the world.

Study Figure 7d below.

Year	Approximate area (hectares)
1990	1 343 012
2017	1 415 918

Figure 7d

Approximate area of deciduous woodlands in the UK

Calculate the percentage increase in the area of deciduous woodlands in the UK between 1990 and 2017.

Answer to one decimal place.

You must show your working in the space below.

(2)

(e) Explain **one** way that animals in deciduous woodlands have adapted to their environment.

	Find Personal Tutor fro	m www.wisesprout.co.uk	找 台仪守帅,用小早线上	辅号(似信小柱净问右 <i>)</i>	
(f) Ex	cplain one economic c	cause of deforestation	on in deciduous woo	odlands.	(3)

(g) Tropical rainforests show a range of distinguishing features.

Study Figure 7e below.

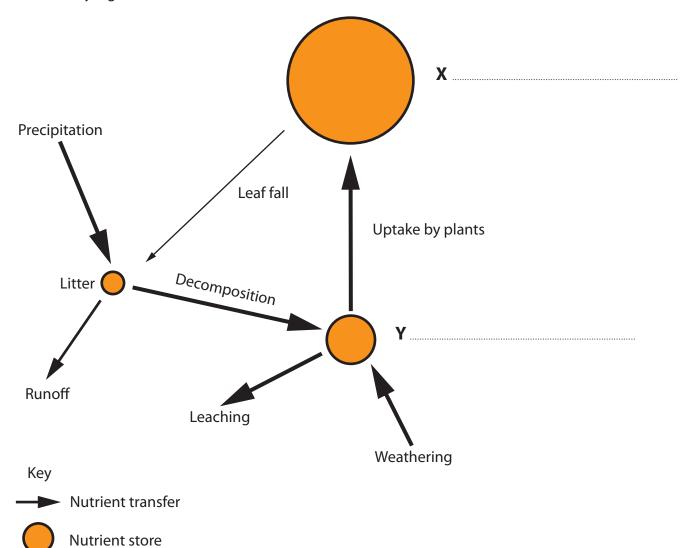


Figure 7e

The tropical rainforest nutrient cycle

Complete Figure 7e by labelling stores **X** and **Y**.

(h) Explain one reason why the tropical rainforest nutrient cycle is so rapid.	(3)

i)	Evaluate the extent to which sustainable management strategies have helped to protect a tropical rainforest in a named region.	(8)
	Named region	

TOTAL FOR PAPER = 94 MARKS

(Spolling nunctuation grammar a	nd use of specialist torminal agy = 4 marks
(Spennig, punctuation, grammar a	nd use of specialist terminology = 4 marks)
	(Total for Question 7 = 34 marks)
	TOTAL FOR SECTION C = 34 MARKS

BLANK PAGE



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

Time 1 hour 30 minutes

Paper reference

1GA0/01

Geography A

PAPER 1: The Physical Environment

ΔΔ

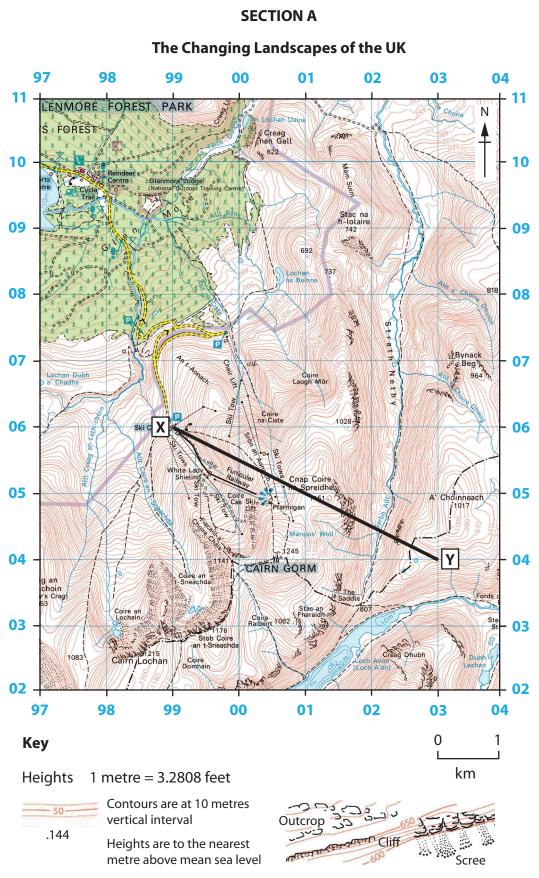
Resource Booklet

Do not return this Booklet with the question paper.

Turn over ▶







Where two heights are shown, the first is the height of the natural ground in the location of the triangulation pillar, and the second (in brackets) to a separate point which is the natural summit

Figure 1

An area of the Scottish Highlands

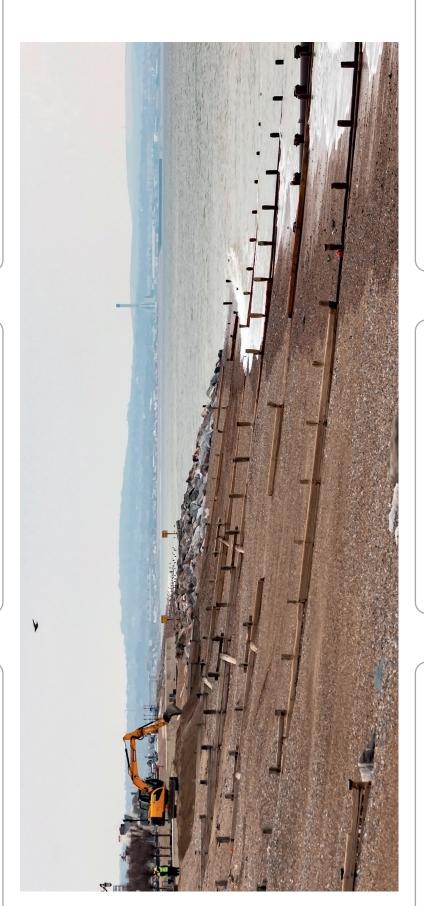


Figure 2a
A coastal landscape in Norfolk, England

The beach consists of a wide sandy lower beach and a narrower shingle upper beach.

Almost all the coastline is highly developed with housing, shops and industry.

The existing defences have not been very well maintained.



Sea levels are rising along this coastline.

40 000m³ of sediment is transported along this stretch of coast each year by

longshore drift.

There have been 50, mostly minor, reported flood incidents in Worthing since 1983.

Figure 2b

Coastal defences at Worthing, England



Figure 3a
A river landscape in Suffolk, England

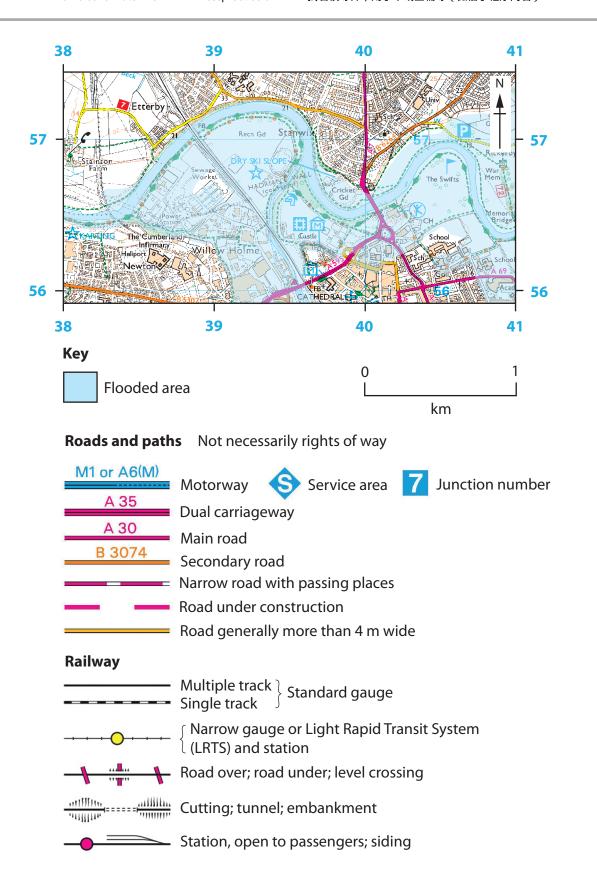


Figure 3b

Extent of flooding on River Eden, Carlisle, England in December 2015



Figure 3c

Rescue workers evacuating residents following flooding in Carlisle, December 2015

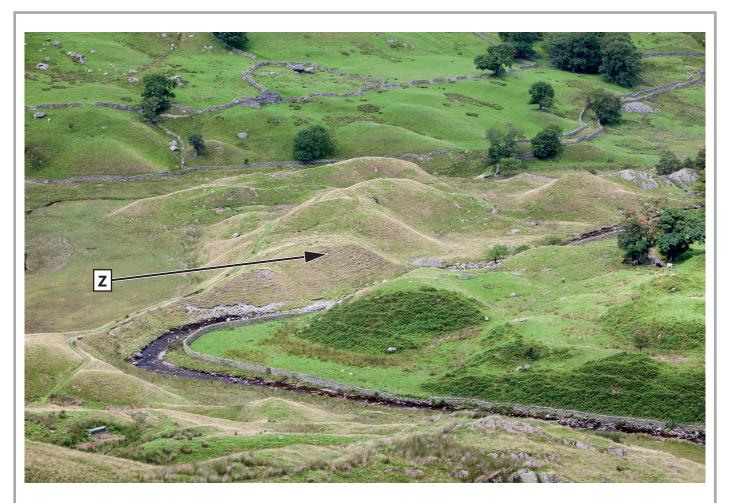
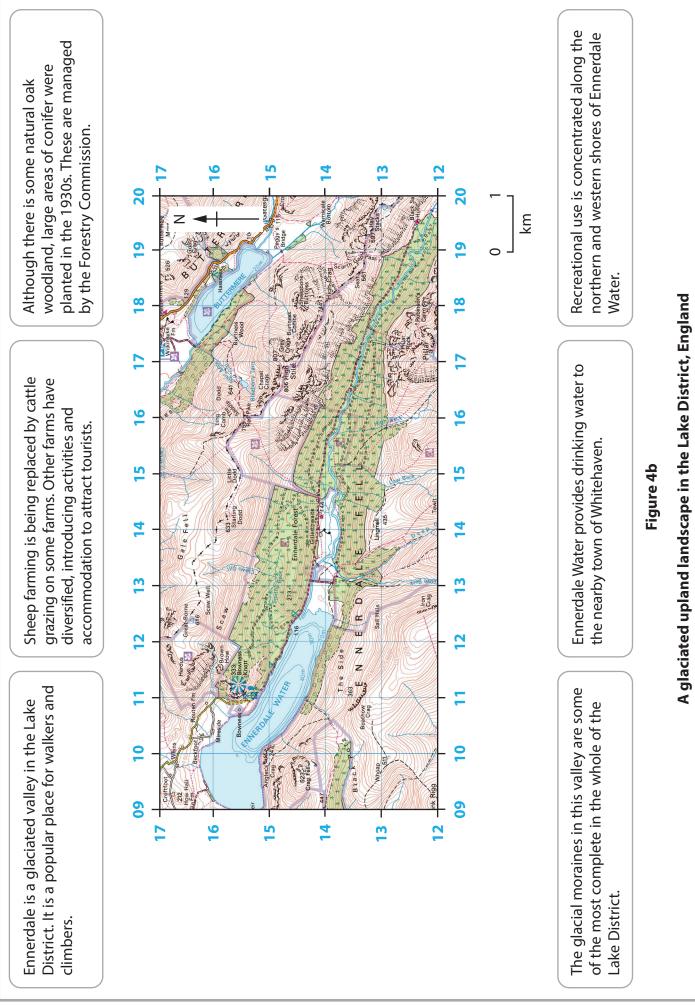
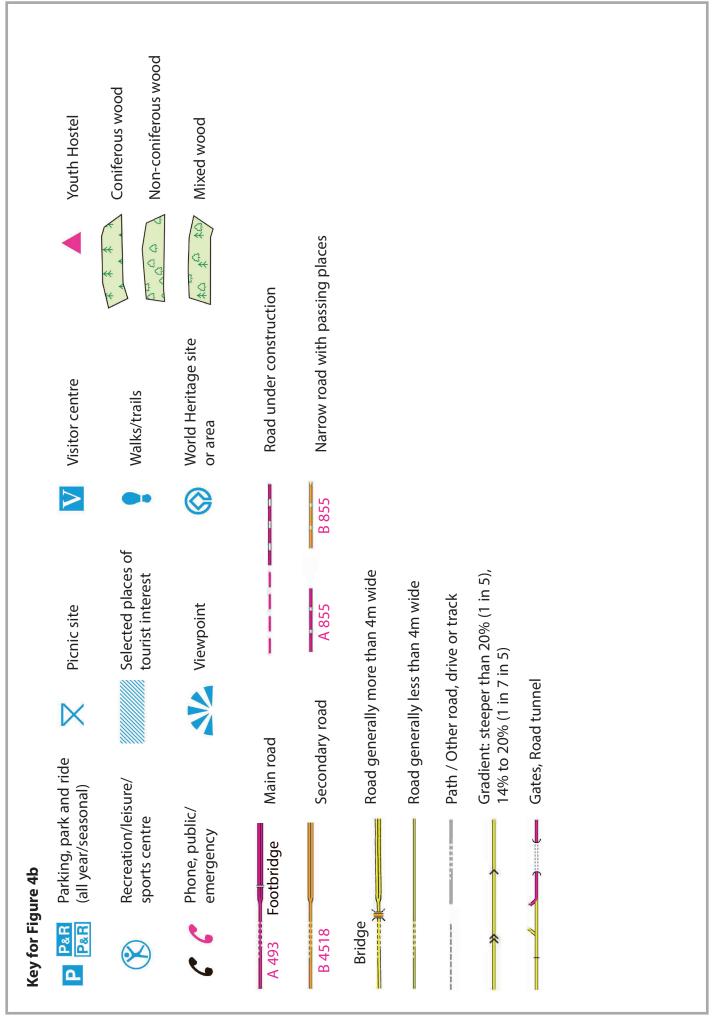
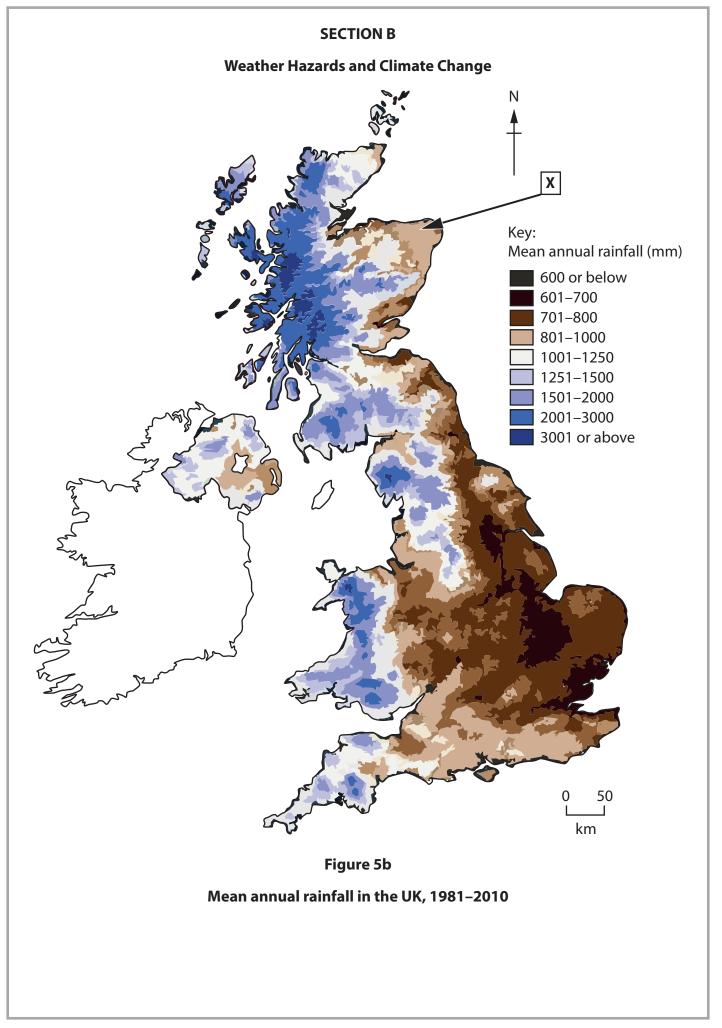


Figure 4a

A glaciated upland landscape in Cumbria, England







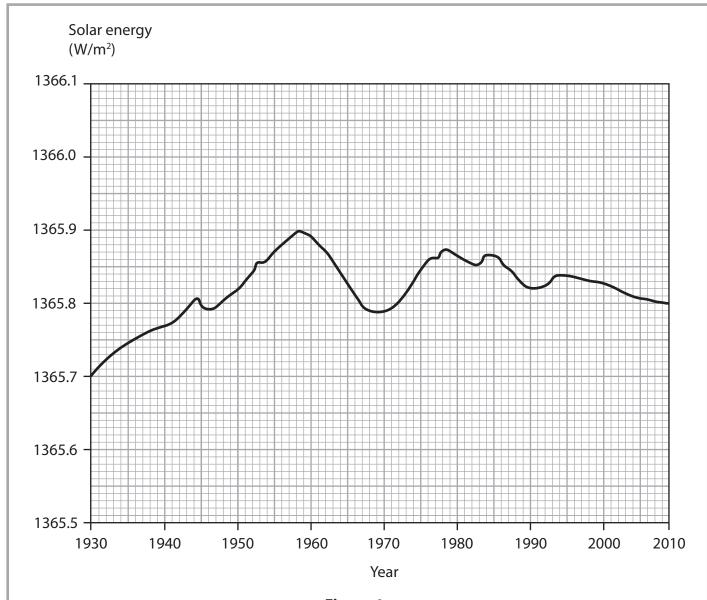


Figure 6a

Variation in solar energy received by the Earth, 1930–2010

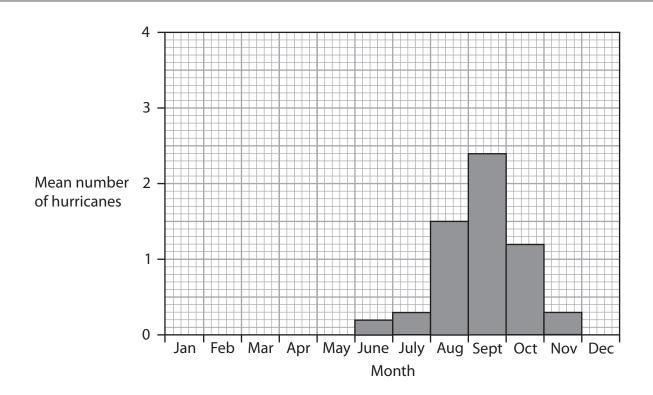
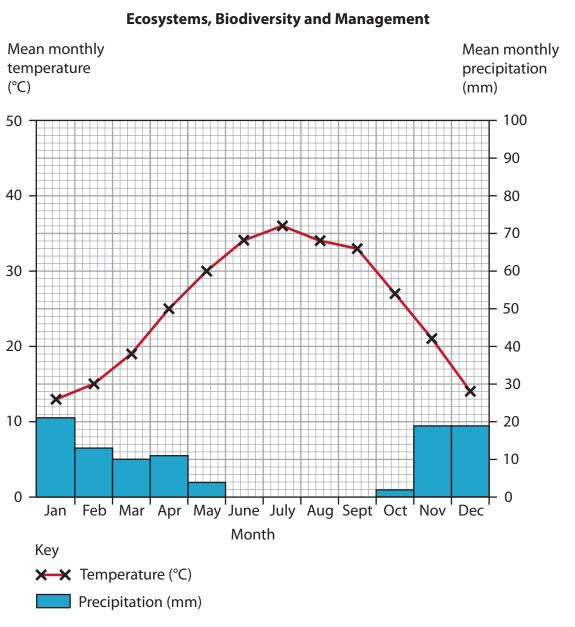


Figure 6c

Mean number of hurricanes in the North Atlantic region, 1851–2017



SECTION C

Figure 7a

Climate graph for a desert biome in Shuwaikh, Kuwait

Monthly precipitation (mm)	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec
	21	13	10	11	4	0	0	0	0	2	19	19



Figure 7b

Resource exploitation in Belo Horizonte, Brazil



Figure 7c

Resource exploitation in Borneo, Malaysia

BLANK PAGE

Pearson Education Ltd. gratefully acknowledges all the following sources used in the preparation of this paper:

Figure 1 © Ordnance Survey

Figure 2a © FLPA/Alamy Stock Photo

Figure 2b © Sara Sadler/Alamy Stock Photo

Figure 2b text sourced from: http://www.sussex.ac.uk/geography/researchprojects/coastview/Selsey_Bill/

Coast_def_strat_Arun-toAdur.pdf

Figure 3a © geogphotos/Alamy Stock Photo

Figure 3c © Anadolu Agency/Contributor/Getty Images

Figure 4a © Ashley CooperAlamy Stock Photo

Figure 4b © OS Map - Cockermouth & Wast Water 89 – Landranger 1:50 000 scale

Figure 5a Sourced from: https://en.wikipedia.org/wiki/Climate_of_London

Figure 5b © Crown Copyright

Figure 6a Sourced from: https://data.giss.nasa.gov/modelforce/solar.irradiance/

Figure 6b © Intergovernmental Panel on Climate Change © United States Environmental Protection Agency

Figure 6c Sourced from: https://www.aoml.noaa.gov/hrd-faq/#1569507388495-a5aa91bb-254c

Figure 7a Sourced from: https://en.climate-data.org/asia/kuwait/shuwaikh-residential/shuwaikh-

residential-1069263/

Figure 7b © Dylan Garcia Travel Images/Alamy Stock Photo

Figure 7c © Wildscotphotos/Alamy Stock Photo