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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.
- 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 ▶





(1)

SECTION A

The Changing Landscapes of the UK

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

| | answer, put a line through the box \boxtimes and then mark your new answer with a cross \boxtimes . | | | |
|---|---|--------------|---|-----|
| 1 | UK landsca | apes a | are made up of different rock types. | |
| | (a) (i) Ide | ntify | one example of an igneous rock. | (1) |
| | × | A | chalk | |
| | × | В | granite | |
| | \boxtimes | C | sandstone | |
| | × | D | schist | |
| | (ii) Sta1 | te on | ne characteristic of igneous rocks. | (1) |
| | (b) Freeze | thaw | is an example of a weathering process. | |
| | State o | ne o | ther weathering process that affects the landscape. | |





(1)

- (c) Study Figure 1 below.
 - (i) Label the landform feature ${\bf Y}$ shown on Figure 1.

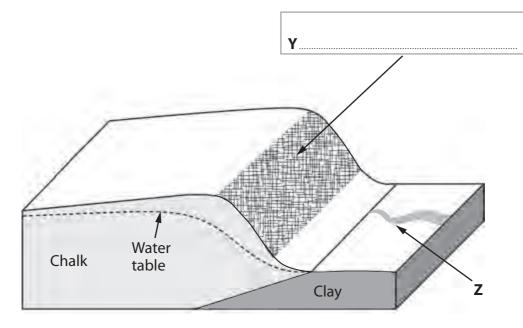


Figure 1

A geological cross-section through a lowland (sedimentary) landscape

| (ii) Explain one reason why a stream is found at Z . | (2) |
|--|-----|
| | (2) |
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| (Total for Question 1 = 6 ma | |



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 y | ou answer | Question 2 | put a | cross | in t | the box | \times | |
|------|-----------|------------|-------|-------|------|---------|----------|--|
|------|-----------|------------|-------|-------|------|---------|----------|--|

| 2 | Coastal landscapes are constantly being changed by different processes. | |
|---|---|-----|
| | (a) Study Figure 2a in the Resource Booklet. | |
| | Identify the landform at 708518. | (1) |
| | (b) State one method of sediment transport along the UK coastlines. | (1) |
| | (c) Wave action is important along this stretch of coastline. | |
| | Explain one way in which destructive waves can increase the rate of coastal erosion. | (2) |
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| (d | (d) Study Figure 2b in the Resource Booklet.Examine the role of different physical processes in the formation of the bar shown in Figure 2b. | | |
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| | in Figure 2b. | (8) | |
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| | Question 3: River Landscapes and Processes | |
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| | If you answer Question 3 put a cross in the box $ lacksquare$. | |
| 3 | River landscapes are constantly being changed by different processes. | |
| | (a) Study Figure 3a in the Resource Booklet. | |
| | Identify the landform at 517988. | (1) |
| | (b) State one type of erosion that takes place in a river. | |
| | | (1) |
| | (c) The velocity of a river changes with distance downstream. | |
| | Explain one reason why river velocity usually increases with distance downstream. | (2) |
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| (d |) Study Figure 3b in the Resource Booklet. | |
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| | Examine the role of different physical processes in the formation of the meander shown in Figure 3b. | |
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| | Question 4: Glaciated Upland Landscapes and Processes | |
| | If you answer Question 4 put a cross in the box $\; oxtimes \; \; oxtimes \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \; \;$ | |
| 4 | Glaciated upland landscapes are constantly being changed by different processes. | |
| | (a) Study Figure 4a in the Resource Booklet. | |
| | Identify the landform at 328282. | |
| | | (1) |
| | | |
| | (b) State one type of glacial erosion that operated in the UK during the last ice age. | |
| | | (1) |
| | | |
| | (c) Glaciers advance and retreat. | |
| | Explain one reason why a glacier may retreat. | |
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| (d) | Study Figure 4b in the Resource Booklet. | |
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| | Examine the role of different physical processes in the formation of the crag and tail shown in Figure 4b. | |
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TOTAL FOR SECTION A = 30 MARKS

SECTION B

Weather Hazards and Climate Change

Answer all questions in this section. Write your answer 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 | Global climate is changing due to natural causes and human activities. | | | | | | | |
|---|--|----------------|---|-----|--|--|--|--|
| | (a) (i) Ide | entify | y one natural cause of climate change. | (1) | | | | |
| | \boxtimes | A | factories | | | | | |
| | \boxtimes | В | volcanoes | | | | | |
| | \boxtimes | C | rice farming | | | | | |
| | \boxtimes | D | car exhaust | | | | | |
| | (ii) Sta | ate t v | wo greenhouse gases. | (2) | | | | |
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(b) Study Figure 5 below.

| Mean monthly | Jan | Feb | Mar | Apr | May | June | Jul | Aug | Sept | Oct | Nov | Dec |
|------------------|-----|-----|-----|-----|-----|------|-----|-----|------|-----|-----|-----|
| temperature (°C) | 5 | 5 | 7 | 10 | 13 | 15 | 18 | 17 | 15 | 10 | 7 | 5 |

Figure 5

Mean monthly temperatures in Reading, England

(i) Calculate the modal value of the mean monthly temperatures shown in Figure 5.

(1)

| | | ······································ |
|------|--|--|
| (ii) | Explain one reason why temperature varies seasonally in the UK. | (3) |
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(Total for Question 5 = 7 marks)



| 6 | Tropical c | yclo | nes develop under specific conditions and in certain locations. | |
|---|-------------|--------|---|-----|
| | (a) Study | Figu | re 6a in the Resource Booklet. | |
| | (i) Id | entif | y which latitudinal zone is affected most by tropical cyclones. | (1) |
| | \times | A | 30°N – 60°N | |
| | \boxtimes | В | 10°N – 30°N | |
| | \boxtimes | C | 0° – 10°N | |
| | \times | D | 0° – 10°S | |
| | | | | |
| | (ii) Ex | xplair | n one reason why tropical cyclones do not travel far inland. | (3) |
| | (ii) Ex | plair | n one reason why tropical cyclones do not travel far inland. | (3) |
| | (ii) Ex | xplair | one reason why tropical cyclones do not travel far inland. | (3) |
| | (ii) Ex | rplair | n one reason why tropical cyclones do not travel far inland. | (3) |
| | (ii) Ex | eplair | n one reason why tropical cyclones do not travel far inland. | (3) |
| | (ii) Ex | eplair | n one reason why tropical cyclones do not travel far inland. | (3) |



(iii) Study Figure 6b below.

Tropical cyclone Winston hit Fiji, a developing country.

The United Nations International Children's Emergency Fund (UNICEF) reported that tens of thousands of people in Fiji are living in evacuation centres after Cyclone Winston tore across the South Pacific country last week.

The total number of people forced from their homes in the nation of more than 300 islands is expected to be much higher as many fled to relatives and are not included in the available data.

Winston was the worst storm recorded in the southern hemisphere, leaving 42 people dead. The category-five storm also left many without water and it could be weeks before electricity is restored in some areas.

Figure 6b

Extract from a newspaper article, 29th February 2016

| vvitn re | ereren | ce to Figure 6b, suggest two social impacts of Cyclone Winston. | (4) |
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| (b) Stu | ıdy Fig | gure 6c in the Resource Booklet. | |
| lde | entify t | he change in total rainfall shown at X on Figure 6c. | (1) |
| > | A | 20mm to 60mm | (-) |
| | В | 0mm to 19mm | |
| | ⊠ C | -1mm to -20mm | |
| D | D | -21mm to -60mm | |

| (C |) State two reasons why a drought may be hazardous to people. | (2) |
|----|---|-----|
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| (c |) Study Figure 6d in the Resource Booklet. | |
| | Suggest two reasons why deforestation in Queensland may cause drought. | (4) |
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| (e) | Assess the different responses to drought in a named emerging or developing country. | |
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| | | (8) |
| | Named emerging or developing country | |
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| (Total for Question 6 = 23 marks) |
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| TOTAL FOR SECTION B = 30 MARKS |



SECTION C

Ecosystems, Biodiversity and Management

Answer all questions in this section. Write your answer 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(f).

- 7 Deciduous woodland is one of the UK's main ecosystems.
 - (a) Name one tree species found in deciduous woodlands in the UK.

(1)

(b) Study Figure 7a below.

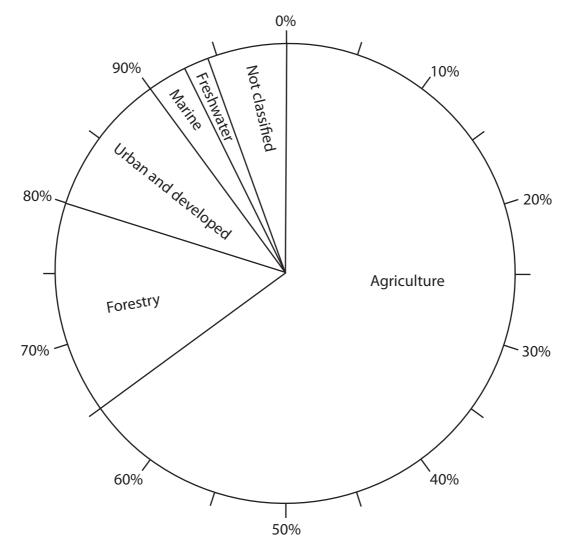


Figure 7a

Pie chart showing land use in the UK

| (i) Identify the percentage of the UK's land use which is forestry. | (1) |
|--|-----|
| (ii) The total area of the UK is 23 500 000 hectares (ha). Calculate the area of forestry in the UK. You must show your working in the space below. | (2) |
| | ha |
| (c) Large-scale ecosystems (global biomes) are found in different parts of the world. (i) Study Figure 7b in the Resource Booklet. Identify the continent with the smallest area of desert. A Asia B Europe C North America D Africa (ii) Explain one way climate influences the distribution of deserts. | (1) |
| | (3) |
| | |





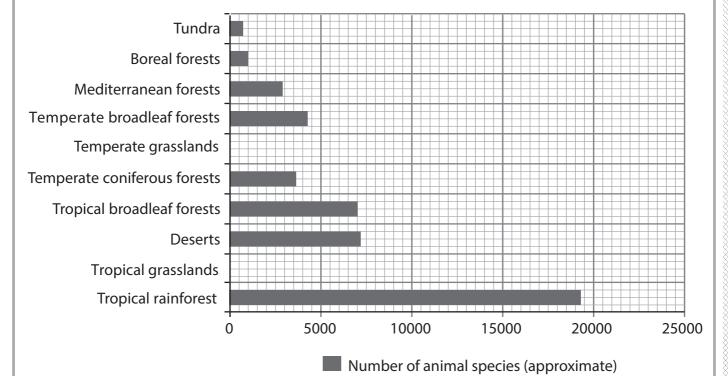


Figure 7c

Number of animal species in selected large-scale ecosystems

(i) Plot the data from the table below on Figure 7c.

(2)

| Large-scale ecosystem | Number of animal species |
|-----------------------|--------------------------|
| Tropical grasslands | 7 500 |
| Temperate grasslands | 4 000 |

| (ii) | Explain one re | ason why Tropical | rainforests have a ve | ry high biodiversity. |
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22

| (e) | Tropical rainforests provide goods and services for people, but are also unde | er |
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| | threat. | |

Study Figure 7d below.

The amount of land lost to deforestation in 1995 was 29 059 km 2 . In 2015 the amount of land lost to deforestation had fallen by 80%.

Figure 7d

Information about deforestation in Brazil

(i) Calculate the amount of land lost to deforestation in 2015.

Answer to one decimal place.

You must show your working in the space below.

(2)

| (ii) Explain two causes of deforestation in tropical rainforests. | |
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| | (4) |
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 km^2

| (iii) Study Figure 7e in the Resource Booklet. | |
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| Suggest one reason why the annual rate of deforestation has changed sind 2004. | ce |
| | (4) |
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24

| (f) | Assess the role of biotic and abiotic characteristics in the functioning of tropic rainforests. | cal |
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| | rainforests. | (8) |
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TOTAL FOR SECTION C = 34 MARKS TOTAL FOR PAPER = 94 MARKS

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