





For the multiple-choice questions, shade the circle next to the correct 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. 

Section A The challenge of natural hazards

Answer **all** questions in this section.

Question 1 The challenge of natural hazards

0 1 . 1

State what is meant by extreme weather.

[1 mark]

0 1 . 2

Which **one** of the following statements does **not** describe an extreme weather event in the UK?

Shade **one** circle only.

[1 mark]

A A snow blizzard in the Midlands.

☐

B A heatwave in the Lake District.

☐

C A tornado in the Isle of Wight.

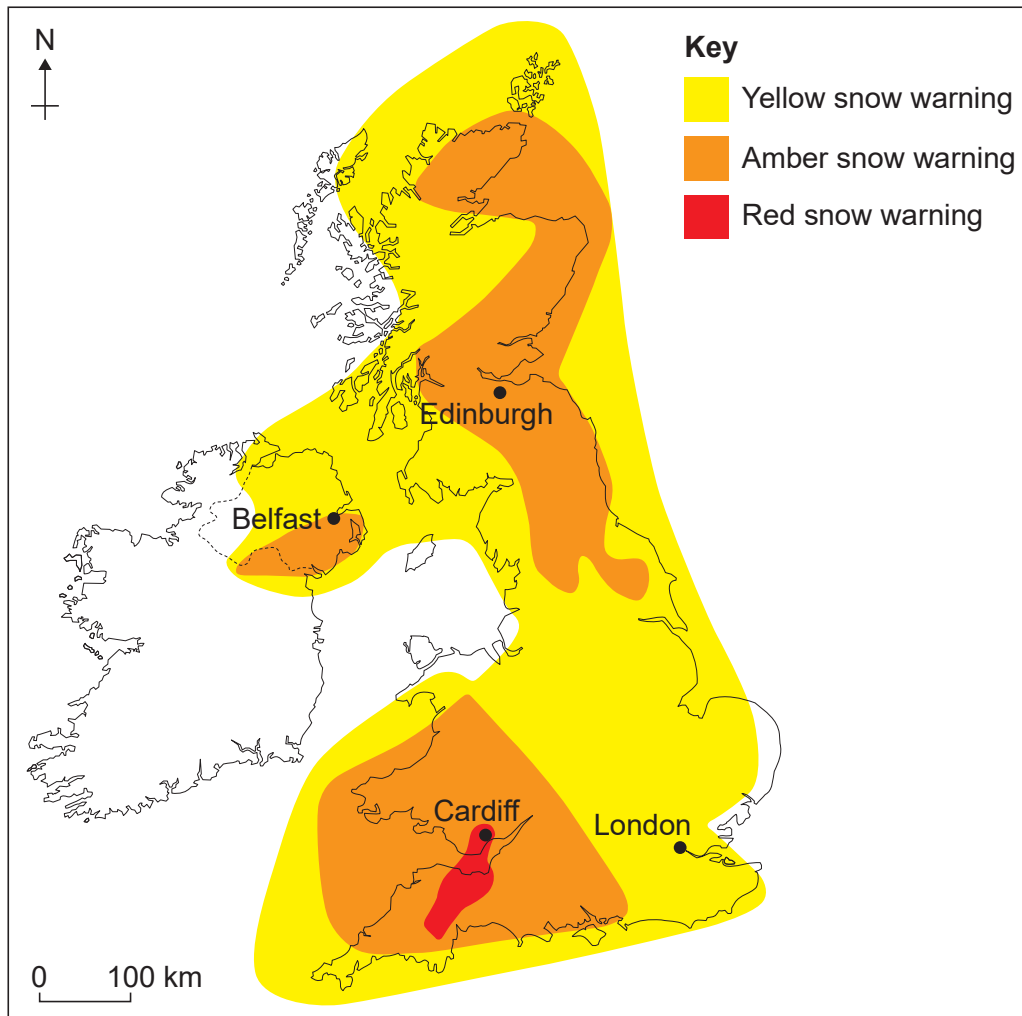
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D A wet winter in western Scotland.

☐


Study **Figure 1**, a map showing a weather forecast for the UK on 1 March 2018.

Figure 1



0 1 . 3

Using **Figure 1**, which **one** of the following statements is true?

Shade **one** circle only.

[1 mark]

- A** The London area has an amber snow warning.
- B** The whole of the UK has a snow warning.
- C** Cardiff has a red snow warning.
- D** Edinburgh is not forecast to have snow.

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Question 1 continues on the next page

Turn over ►



Figure 2

- Dangerous weather
- Risk to life
- Major disruption to travel and power supplies



‘Beast from the East’ causes chaos across Britain. The killer freeze costs the UK £1 billion per day as transport routes are disrupted by snow and ice. Businesses and schools are forced to close.

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Use **Figure 2** and your own understanding.

[6 marks]

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

Extra space _____

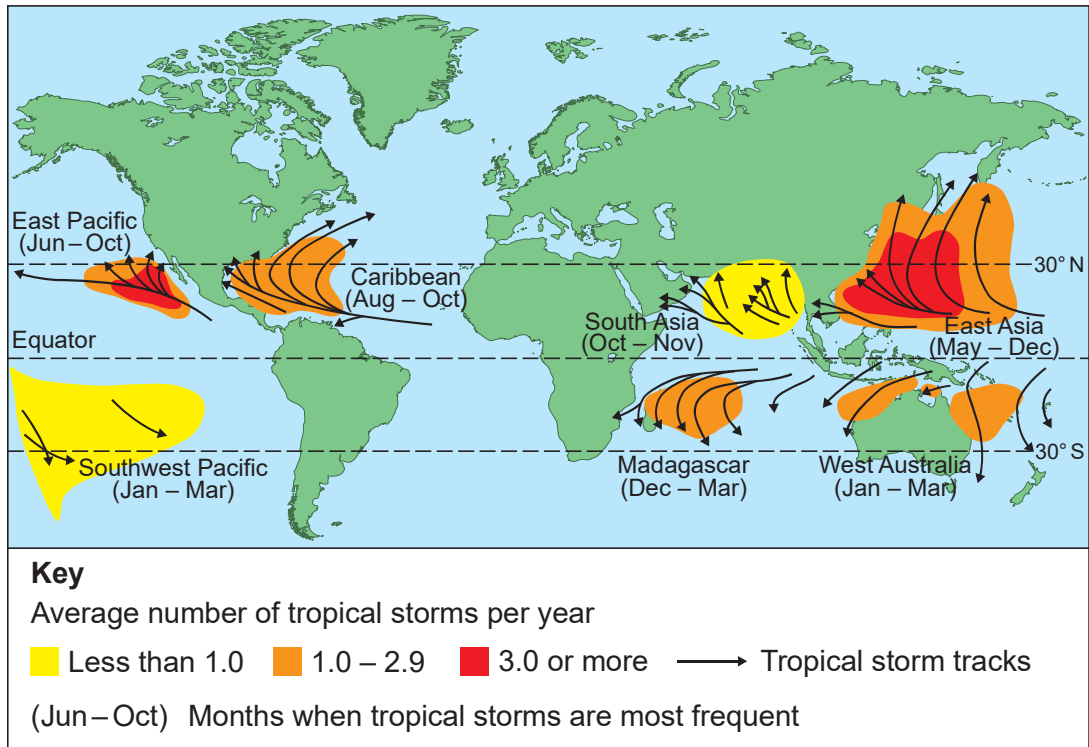
Question 1 continues on the next page

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Study **Figure 3**, a map showing the distribution and frequency of tropical storms.

Figure 3



0 1 . 5

Using **Figure 3**, complete the following paragraph.

[3 marks]

Most tropical storms happen between latitudes 5 degrees and 30 degrees north and south of the _____.

On average, three or more tropical storms per year take place in the East Pacific and _____. In the Caribbean the main months for tropical storms are between _____.



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Give **two** reasons why tropical storms form in the areas shown in **Figure 3**.

[2 marks]

1 _____

2 _____

Question 1 continues on the next page

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Study **Figure 4**, a table listing some of the most severe tropical storms over the past 50 years.

Figure 4

Tropical storm	Number of deaths	Max wind speed (km per hour)
1970 Bhola cyclone, Bangladesh	350 000	205
1975 Typhoon Nina, China	230 000	250
2008 Cyclone Nargis, Myanmar	138 000	215
1998 Hurricane Mitch, Caribbean	19 300	295
2013 Typhoon Haiyan, Philippines	7 300	310
1980 Hurricane Allen, Caribbean, Mexico and USA	260	305
2017 Hurricane Irma, Caribbean and USA	134	298

0 1 . 7

‘As maximum wind speeds increase, so does the number of deaths linked to tropical storms.’

Do you agree?

Use evidence from **Figure 4** to support your answer.

[2 marks]

0 1 . 8

Suggest **one** way the distribution of tropical storms could change if global ocean temperatures continue to rise.

[1 mark]



0	1	.	9
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Explain how alternative energy production **and** planting trees may help to reduce the rate of climate change.

[4 marks]

Extra space _____

Question 1 continues on the next page

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Study **Figure 5**, photographs showing different types of response to a tectonic hazard.

Figure 5



Immediate response to a tectonic hazard in Haiti



Long-term response to a tectonic hazard in Haiti

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'Long-term responses to a tectonic hazard are more important than immediate responses.'

Do you agree?

Using **Figure 5** and **one or more** examples, explain your answer.

[9 marks]

[+3 SPaG marks]



1 1