### The total of all marks is 20.

**1.** Study Weather Map below. It shows a low pressure system (depression) over the British Isles in March 2019. Calculate the difference in temperature between the two weather stations shown on Weather Map. (max 1 mark)



**Correct answer:** 5°C (1 mark)

### Use the key from Weather Map to complete the table below. (max 4 marks)

The wind speed at Station A was	
The amount of cloud at Station A was	
The type of precipitation falling at Station A was	
The wind direction at Station A was	

### **Correct answers:**

The wind speed at Station A was	20 knots (1 mark)
The amount of cloud at Station A was	full cloud cover (1 mark)
The type of precipitation falling at Station A was	rain (1 mark)
The wind direction at Station A was	south west(erly) (1mark)

### Give one reason why it is raining at weather station B. (max 2 mark)

### **Answer option**

Credit **one** valid statement for one mark, and its *elaboration* for **one** additional mark. Warm air is forced to rise (1 mark) *by the cold front* (1 mark) *it cools* (1 mark) *moisture condenses* (1 mark)

2. Figure shows a settlement in polar environment. Study figure. Which of the following suggests that this is an extreme environment? (max 1 mark)



**A** The small settlement.

**B** The absence of industry.

C The pack ice in the bay.

**D** The lack of grass on the football pitch.

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Третий этап республиканской олимпиады по учебному предмету «География» 2020/2021 учебный год Which of the following is a feature of housing design in polar environments? (max

1 mark)

A Steep roof angles. **B** Painted white to absorb heat. **C** Large window size. **D** Built of stone.

## **Outline** *one* **threat to the survival of settlements in polar environments.** (*max* 2 *marks*)

### **Answer option**

The question asks for an outline of one threat, so expect: basic point = changing climate threatening livelihoods/outmigration because of threat to livelihoods (1 mark);

extension = detail of the reasons for the decline of settlements, e.g. reduction in fish stocks/ecosystem damage/detail of nature of climate change, e.g. loss of sea ice (1 mark).

Reject answers that are not related to polar environments.

### **Outline** *one* **reason why** *global* **action is necessary to protect polar environments**. (*max* 3 *marks*)

### **Answer option**

One mark for point and two marks for extension.

• Because Polar Regions (Antarctica, Arctic Ocean) are not owned by any one country

(1 mark), so without international action there is no control (2 marks).

- Because what one country does will affect other countries (1 mark), example/detail of same (2 marks).

• Because of scale of threat to extreme environments (1 mark), example of the threat (2 marks).

Reject policies that are clearly not global.

# **3.** Use figures to compare the coastal landscapes before and after the passage of Hurricane Isaac. In order to compare the coastal landscapes, both similarities and differences should be highlighted. (*max* 6 marks)

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Chandeleur Islands, Louisiana, before and after the passage of Hurricane Isaac (an extreme weather event)

### **Answer option**

#### Similarities include:

 $\cdot\,$  Both landscapes are low energy coastal environments of deposition

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• Both landscapes are comprised of sand/sediment deposits

### Differences include:

• More extensive, continuous and wider area of sand/sediment deposits in the foreground pre-Isaac compared to discontinuous, fragmented and smaller area of sand/sediment deposits post-Isaac

• Extensive seaward-facing areas of marshland vegetation pre-Isaac compared to the absence of marshland vegetation post-Isaac

• Lagoons to west pre-Isaac compared to loss/absence of lagoons post-Isaac

• Limited offshore deposition beyond islands pre-Isaac compared to more, but discontinuous offshore deposition in area beyond main island post-Isaac Presence of island to east in foreground pre-Isaac compared to destruction of island in east postIsaac