

Question 1

- 10B. 1 @ 3 marks
Boreal

Question 2

11. 3 @ 1 mark each
(i) July (ii) 20 (iii) 70

Question 3

A. Ocean Currents

- (i) Name the ocean current labelled X and the ocean current labelled Y.
Two Currents @ 1m each
- (ii) Explain **two** effects that the ocean current Y has on the climate of Ireland.
Two Explanations at 4m each (St2 + D1 + D1)

(10)

Question 4

B. Irrigation

- (i) State what is meant by the term *irrigation*.
Statement 1m
- (ii) Name any **one** irrigation scheme that you have studied.
Name 1m
- (iii) Explain **two** advantages of this irrigation scheme.
Two Explanations @ 4m each (St2 + D1 + D1)
If irrigation scheme named is invalid Statement marks only.

(10)

Question 5

C. Desertification

- (i) Explain **one** natural cause and explain **one** human cause of desertification.
Two Explanations at 3m each (St1 + D1 + D1)
Accept global warming once.
- (ii) Describe **two** effects of desertification.
Two Descriptions @ 2m each (St1 + D1)

(10)

Question 6

4. 3 @ 1 mark each
(i) Cold (ii) South-easterly trade winds (iii) High pressure

Question 7

12B. 1 @ 3 marks
Boreal

Question 8

9B. 1 @ 3 marks
Global warming

Question 9

A. Climate Type

- (i) Name **one cold** climate that you have studied.

Climate Type Named @ 2m

- (ii) Explain the temperature **and** precipitation characteristics of this **cold** climate.

Temperature Characteristic Exp @ 3m (St2 + D1)

Precipitation Characteristic Exp @ 3m (St2 + D1)

- (iii) Describe **one** way that natural vegetation has adapted to this **cold** climate.

One Adaptation Described @ 2m (St1 + D1)

(10)

Question 10

C. Drought

- (i) Name an area that experiences severe drought **and** explain why drought occurs in this area.

Area Named @ 1m

One Explanation @ 3m (St2 + D1)

- (ii) Describe and explain the impacts of drought on human activity in this area.

Two Impacts Des/Exp @ 3m each (St2 + D1)

(10)

Question 11

- (i) Name the type of climate at each of the locations **A, B, and C**.

Three climates correctly named @ 1m each

- (ii) Explain the characteristics of any **one** climate type that you have studied.

Climate named @ 1m

Two characteristics @ 3m (St1 + D1 + D1)

Question 12

- A. (i) Name **one** hot climate. **Name @ 2m**
(ii) Name **one** temperate climate. **Name @ 2m**
(iii) Name **one** cold climate. **Name @ 2m**

- B. Select **one** climate and describe it in detail referring to temperatures and precipitation.

Two Descriptions @ 6m each (St 2m +Dev 2m +Dev 2m)
One Temperature/ One precipitation

- C. Factors affecting climate include:

- Latitude
- Distance from the seas and oceans
- Prevailing winds
- Altitude
- Relief
- Aspect.

Select any **three** of these factors and explain how each one affects climate.

Explanation how each affects climate **Three @ 4m each** (St 2m +Dev 1m +Dev 1m)

Question 13

- 6.. 3 @ 1 mark
(i) Tundra (ii) Hot Desert (iii) Equatorial

Question 14

Two reasons @ 5 marks (St. 3mks + Dev 2mks)

Suggested answer

X is on a North facing slope and is exposed to cold northerly winds.

Question 15

Mali, Sudan, Ethiopia etc.

A lack of rain and drought cause desertification and this leads to migration.

Question 16

(i) What is the annual rainfall at Dublin City?

(2)

Rainfall figure @ 2 marks

Suggested answer.

Less than 800mm

(ii) What name is given to lines on maps which show places of equal precipitation?

(2)

Name @ 2 marks

Suggested answer.

Isohyet

(iii) Explain why the place labelled X on the diagram could be expected to have higher precipitation than the place labelled Y.

(6)

Two explanations @ 3 marks each. (St. 2mks + Dev 1 mk)

Suggested answer.

X is on the windward side. Moisture laden winds rise and cool forming rain.

Y is in the rain shadow. At Y the winds descend and absorb moisture

At X winds are ascending and lose moisture.

Question 17

Suggested answer.

1985

(1)

(ii) Name the year that had the most rainfall.

Name @ 1 mark

Suggested answer.

1964

(1)

(iii) Describe **three** effects, which a severe shortage of rain might have on the development of a country such as Somalia.

Three descriptions @ 3marks each (St. 2 mks + Dev 1 mk.)

(9)

Suggested answer.

Famine will effect the country because crops can't grow.

Millions of hectares of land destroyed. Soil will dry out and blow away.

Migration. People will leave land and move to towns and cause overcrowding

Question 18

6. 3 @ 1 mark

(i) The north west

(ii) Over 17⁰C

(iii) Isotherms

Question 19

Named country/region @ 2 marks

Suggested answer.

France /Riviera/ Spain / Portugal /Algarve/ Italy
/Albania/Greece/Canaries/Switzerland

(11)

Three explanations @ 3 marks each (St. 2mks + Dev 1mks)

Suggested answer.

A regions with a Mediterranean climate have hot dry summers, which suits people from Northern Europe who like sun bathing.

The Algarve has higher temperatures in the summer than Ireland

There are more hours sunshine in Spain

Longer periods of sunshine in Summer in Lanzarote than in Dublin, which tourists prefer in order to relax at beaches/ sunbathe.

Question 20

Two explanations @ 2 marks each (St. 1 mks + Dev. 1 mks)

Suggested answer.

Industrial regions have power stations, which burn fossil fuels, which produce sulphur dioxide and nitrogen oxides, which become acid when mixed with rain.

Iron and steel works produce huge amounts of toxic gases, which turn to acid rain.

(ii) The area labelled **X** on the map is lightly populated and is not heavily industrialised.

Suggest then why the area labelled **X** suffers from high levels of acid rain.

Two suggestions @ 3 marks each (St. 2mks + Dev 1 mk)

(10)

Suggested answer.

Region **X** is situated close to industrial regions in Germany, Poland, and Belgium.

The prevailing winds are coming from the south west bringing rain across industrial regions towards the region **X**.

Question 21

Location = 2marks

One explanation @ 4marks (St 2mks + Dev 2mks)

Suggested answer.

Location = B

Location B is further from the sea than A. These winds keep summers from getting too warm and winters too cold the nearer you are to the sea.

- (ii) Explain how the prevailing wind labelled **X** would affect the climate of the lands over which it blows. (10)

One explanation @ 4marks (St 2mks + Dev 2mks)

Suggested answer.

This wind is coming from the North (Polar Wind) therefore it would make the climate colder. As it moves south it will get warmer picking up moisture therefore producing little precipitation.

Question 22

4. 3 @ 1mark each

- (i) Labrador Current
- (ii) North Atlantic Drift / Gulf Stream
- (iii) Cold Current