

Question 1

- 10A. 1 @ 3 marks
Hygrometer

Question 2

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

Question 3

16. 1 @ 3 marks
Cyclonic or frontal rainfall

Question 4

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 5

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

Question 6

8. 3 @ 1 mark each
(i) Depression (ii) Windy (iii) Isobars

Question 7

- 12A. 1 @ 3 marks
Cirrus clouds

Question 8

Question 2. THE RESTLESS ATMOSPHERE AND HUMAN ACTIVITY**A. Rainfall**

Describe and explain, with the aid of a labelled diagram, how relief rainfall occurs.

Labelled diagram 2m

Two description / explanations @ 4m each (St2 + D1 + D1)

One must be Explanation

One development mark may be for additional information, not in the written, on a diagram.

(10)

Question 9

B. Global Warming

Examine the graph above which shows information regarding average global temperatures from 1881 to 2010 and answer each of the following questions.

- (i) During which ten year period were average global temperatures at their lowest?

Answer: 1901 – 1910 @ 1m

- (ii) What was the average global temperature in the period 1991-2000?

Answer: 14.26°C @ 1m (*°C must be given*)

- (iii) Explain **two** ways that human activity contributes to global warming.

Two explanations @ 3 marks each (St1 + D1 + D1)

- (iv) Describe **one** effect of global warming on Ireland.

Description of one effect @ 2m (St1 + D1)

(10)

Question 10

4. 1 @ 3 marks
1, 4, 5

Question 11

5. 3 @ 1 mark each
(i) Increase (ii) Labrador Current (iii) Cold

Question 12

- 9B. 1 @ 3 marks
Global warming

Question 13

3. 1 @ 3 marks --Relief rainfall

Question 14

4. 3 @ 1mark each
(i) Heavier (ii) Cold (iii) Prevailing Wind

Question 15

6. 3 @ 1 mark each
(i) 15.4mm (ii) 2.9°C (iii) 14.1°C

Question 16

- 7B. 3 @ 1 mark each
(i) Isobars (ii) Isotherms (iii) Isohels

Question 17

6. 3 @ 1 mark each
(i) Warm (ii) Cold (iii) North Atlantic Drift

Question 18

7. 1 @ 3 marks
1,3,5

Question 19

14. 3 @ 1 mark each
Graph completed March to 8, June to 12, August to 14

Question 20

5. 3 @ 1 mark each
(A) Isobars (B) Isohyets (C) Isotherms

Question 21

6. 3 @ 1 mark each
Stevenson Screen, Temperature, Humidity

Question 22

- (i) Name **two** major gases found in the atmosphere.
Two Named @ 1m each
- (ii) Explain, with the aid of a diagram, how the greenhouse effect occurs.
Diagram 1m + Labelled 1m
Two Explanations @ 2m each (St1+D1)

Question 23

3. 1 @ 3 marks
Relief Rainfall.

Question 24

6. 3 @ 1 mark each

X	Y
A	2
B	3
C	4
D	1

Question 25

- 8A. 3 @ 1mark each
Thermometer, Hygrometer, Stevenson Screen

Question 26

8A. 2 @ 1 mark + 2 marks

(i) July. (ii) 12° C

Or

Question 27

Weather Instrument	Letter
Wind vane	D
Anemometer	B
Thermometer	A
Campbell- Stokes Recorder	C

Question 28

6.. 3 @ 1 mark each

(i) February (ii) 8.5° C (iii) 149/150 mms.

Question 29

(i) Evaporates, (ii) Condenses, (iii) Precipitation.

Question 30

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 31

B. Weather

Examine the weather map.

(i) What name is given to the numbered lines shown on this map? (1)

Name @1mark
Suggested answer
Isobars

(ii) What name is given to the feature labelled **A** on the map? (1)

Name @1mark
Suggested answer
Warm front.

(iii) What name is given to the feature labelled **B** on the map? (1)

Name @1mark
Suggested answer
Cold front

(iv) What is the atmospheric pressure at **C** on the map? (1)

Name @1mark
Suggested answer
1024 mbs

(v) Describe the weather conditions that you would expect to find at **D** on the map. (6)

Three descriptions@ 2mks
Suggested answer
The weather is showery.
Winds remain steady or decreasing.

Question 32

high pressure, south-westerly anti-trades, warm winds

Question 33

4B. 3 @ 1 mark

A: Campbell Stokes Sun recorder. **B:** Rain Gauge. **C:** Wind Vane/Weather Cock

Question 34

(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 35

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 36

Suggested answer.

Burning fossil fuels. Releases carbon dioxide and sulphur dioxide into atmosphere

Deforestation. Trees take in CO² and give out oxygen.

Clearing land use to feed huge herds of animals that produce methane.

(ii) Name and describe **one** way in which global warming could harm people in the future.

Name one way @ 2 marks

One description @ 2marks

(4)

Suggested answer.

Sea levels will rise and low-lying areas like Netherlands will flood

Climate change, parts of Africa will get drier and more people will die and crops will fail.

Question 37

6. 3 @ 1 mark

(i) The north west

(ii) Over 17⁰C

(iii) Isotherms

Question 38

6. 3 @ 1 mark

(i) The north west

(ii) Over 17⁰C

(iii) Isotherms

Question 39

15A 3 @ 1 mark

A = 3

B = 2

C = 4

D = 1

OR

15B 1 @ 3 marks

Convictional rainfall

Question 40

15A 3 @ 1 mark

A = 3

B = 2

C = 4

OR

15B 1 @ 3 marks

Convictional rainfall

Question 41

- (i) Name **each** of the features labeled **A, B** and **C** on the chart.

Three features @ 1 mark each

A = Warm Front, **B** = Cold Front **C** = Isobar

- (ii) Describe the weather conditions, which you would expect to find in the area labeled X on the chart. Refer briefly in your answer to atmospheric pressure, cloud and precipitation.

(9)

Three descriptions @ 2 marks each

Suggested answer.

The weather is showery with drizzle

There is broken cloud with sunny spells

Pressure is low between 1000 1008 mbs.

Question 42

4. 3 @ 1mark each

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

Question 43

A	4
B	1
C	3
D	2

Question 44

13A. 1 @ 2marks /2 @ 3marks (i) 6° C (ii) April	OR	13B. 1 @3 mark 2,3,4
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Question 45

13A. 1 @ 2marks /2 @ 3marks (i) 6° C	OR	13B. 1 @3 mark 2,3,4
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