



Atmosphere & Ocean
Geography Marking Scheme
Higher Level

2013

Section 3 - Q 22, 23, 24

22. Examine how circulation patterns in the atmosphere and/or the oceans affect weather and climate at the earth's surface.

[80m]

Number of aspects:	3 @ 27 + 27 + 26	4 @ 20 marks each
Identifying aspect:	4 marks	4 marks
Discussion:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed
- Allow for up to 2 examples to a max of 2 SRPs (different examples and in different aspects)
- Allow for up to 2 labelled illustrations to a max of 2SRPs (different illustrations and in different aspects).

23. Examine **one** climate type that you have studied.

[80m]

Number of aspects:	3 @ 27 + 27 + 26	4 @ 20 marks each
Identifying aspect:	4 marks	4 marks
Discussion:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed
- Allow for up to 2 examples to a max of 2 SRPs (different examples and in different aspects)
- Allow for up to 2 labelled illustrations to a max of 2SRPs (different illustrations and in different aspects).

24. Give an account of how atmosphere-ocean phenomena are measured and examine the importance of such measurements with reference to pressure, temperature, wind and humidity.

[80m]

Number of aspects:	4 @ 20 marks each
Identifying aspect:	4 marks
Discussion:	6 x SRPs
Overall coherence:	4 marks graded

- Allow for up to 2 examples to a max of 2 SRPs (different examples and in different aspects)
- Allow for up to 2 labelled illustrations to a max of 2SRPs (different illustrations and in different aspects).

2012

Section 3 - Q 22, 23, 24

22. The characteristics of climate can change over time and space.
Discuss this statement with reference to examples that you have studied.

[80m]

Number of aspects:	3 @ 27 + 27 + 26	4 @ 20 marks each
Identifying aspect:	4 marks	4 marks
Discussion:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed
- Allow for up to 2 examples to a max of 2 SRPs (different examples and in different aspects)
- Allow for up to 2 labelled illustrations to a max of 2SRPs (different illustrations and in different aspects)
- A ratio of 1:2 or 2:1 or 2:2 or 1:3 or 3:1 is required

23. Examine the impact of rainfall on agriculture and on domestic water supplies.

[80m]

Number of aspects:	3 @ 27 + 27 + 26	4 @ 20 marks each
Identifying aspect:	4 marks	4 marks
Discussion:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed
- Allow for up to 2 examples to a max of 2 SRPs (different examples and in different aspects)
- Allow for up to 2 labelled illustrations to a max of 2SRPs (different illustrations and in different aspects)
- A ratio of 1:2 or 2:1 or 2:2 or 1:3 or 3:1 is required

24. Examine the exchange of water between the oceans and the atmosphere.

[80m]

Number of aspects:	3 @ 27 + 27 + 26	4 @ 20 marks each
Identifying aspect:	4 marks	4 marks
Discussion:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed
- Allow for up to 2 examples to a max of 2 SRPs (different examples and in different aspects)
- Allow for up to 2 labelled illustrations to a max of 2 SRPs (different illustrations and in different aspects)

2011

Section 3 - Q 22, 23, 24

22. Exchanges of water between ocean and atmosphere vary over the surface of the earth and this gives rise to distinctive weather conditions.

Discuss this statement with reference to examples that you have studied.

[80m]

Number of aspects:	3 @ 27 + 27 + 26	4 @ 20 marks each
Identifying aspect:	4 marks	4 marks
Discussion:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed
- Allow for up to 2 examples to a max of 2 SRPs (different examples and in different aspects)
- Allow for up to 2 illustrations to a max of 2SRPs (different illustrations and in different aspects).

23. Climate characteristics have an influence on economic development.

Discuss this statement with reference to agriculture.

[80m]

Number of aspects:	3 @ 27 + 27 + 26	4 @ 20 marks each
Identifying aspect:	4 marks	4 marks
Discussion:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed
- Allow for up to 2 examples to a max of 2 SRPs (different examples and in different aspects)
- Allow for up to 2 illustrations to a max of 2SRPs (different illustrations and in different aspects).

24. Account for the distinctive nature of **one** global climate that you have studied.

[80m]

Number of aspects:	3 @ 27 + 27 + 26	4 @ 20 marks each
Identifying aspect:	4 marks	4 marks
Discussion:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed
- Allow for up to 2 examples to a max of 2 SRPs (different examples and in different aspects)
- Allow for up to 2 illustrations to a max of 2SRPs (different illustrations and in different aspects).

2010

Section 3 - Q 22, 23, 24

22. Describe and explain why the characteristics of climate change over time. [80m]

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Examination:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed
- Allow credit for up to 2 examples to a max of 2SRPs (Different examples and in different aspects)
- Allow credit for up to 2 illustrations to a max of 2SRPs (Different illustrations and in different aspects)

23. Examine the impact of climate on the development of tourism in any region that you have studied. [80m]

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Examination:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- A named region is required for 1 SRP
- Select scheme according to number of aspects discussed
- Allow credit for up to 2 examples to a max of 2SRPs (Different examples and in different aspects)
- Allow credit for up to 2 illustrations to a max of 2SRPs (Different illustrations and in different aspects)

24. Describe and explain the formation of mid-latitude depressions and the weather patterns associated with them. [80m]

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Examination:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed
- Allow credit for up to 2 examples to a max of 2SRPs (Different examples and in different aspects)
- Allow credit for up to 2 illustrations to a max of 2SRPs (Different illustrations and in different aspects)

2009

Section 3 - Q 22, 23, 24

22. Give an explanatory account of any **one** global climate you have studied.

[80m]

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Examination:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects examined.
- Allow credit for up to 2 examples from SRPs (Different examples & in different aspects)
- Accept named climate for one SRP once
- At least two aspects must deal with cause of climate

23. Explain why temperatures vary greatly over the surface of the earth.

[80m]

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Discussion:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects dealt with (2:1/1:2/2:2)
- Allow credit for up to 2 examples from SRPs (Different examples & in different aspects)

24. Climate influences economic development. Discuss this statement with reference to examples you have studied.

[80m]

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Discussion:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Select scheme according to number of aspects discussed.
- Allow credit for up to 2 examples from SRPs (Different examples & in different aspects)

2008

Section 3 - Q 22, 23, 24

22. Describe and explain the formation of the mid-latitude depressions and anticyclones - and the weather patterns associated with them.

[80m]

Number of aspects:	3 (27 + 27 + 26)		4 @ 20 marks each
Identifying aspect:	4 marks		4 marks
Examination:	8 x SRPs	OR	6 x SRPs
Overall coherence:	7/6 marks graded		4 marks graded

- Select scheme according to number of aspects dealt with (2:1/1:2/2:2)
- Allow credit for up to 2 examples from SRPs (different examples & in different aspects)

23. Explore **one** argument in support of and **one** argument against the idea that major global climate change is currently underway.

[80m]

Number of aspects:	3 (27 + 27 + 26)		4 @ 20 marks each
Identifying aspect:	4 marks		4 marks
Examination:	8 x SRPs	OR	6 x SRPs
Overall coherence:	7/6 marks graded		4 marks graded

- Select scheme according to number of aspects dealt with (2:1/1:2/2:2)
- Allow credit for up to 2 examples from SRPs (different examples & in different aspects)

24. Analyse and explain the interaction between the earth's atmosphere and oceans.

[80m]

Number of aspects:	3 (27 + 27 + 26)		4 @ 20 marks each
Identifying aspect:	4 marks		4 marks
Examination:	8 x SRPs	OR	6 x SRPs
Overall coherence:	7/6 marks graded		4 marks graded

- Allow credit for up to 2 examples from SRPs (different examples & in different aspects)

2007

Section 3 - Q 22, 23, 24

22. Describe and explain the development of patterns of air circulation. In your answer you should refer to **at least two** of the following:

- Global wind systems
- Land and sea breezes
- Mountain and valley winds

(80 marks)

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Examination:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Accept impacts also (for a maximum of 3 x SRPs per aspect)
- Select scheme according to number of aspects dealt with (2:1/1:2/2:2/3:1/1:3)

23. Examine the exchange of water between the oceans and the atmosphere.

(80 marks)

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Examination:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

24. Give an explanatory account of any **one** distinctive global climate that you have studied.

(80 marks)

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Examination:	8 x SRPs	OR 6 x SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Allow 1 x SRP for naming of a climate (once)

2006

Section 3 - Q 22, 23, 24

QUESTION 22

"Climate change is a cause of global concern". Discuss. (80 marks)

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Examination:	8 SRPs	OR 6 SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- At least one factor must refer to each of climate change and global concern.
- If only two factors, sub-divide to benefit of candidate. Judge OC accordingly.

QUESTION 23

Examine the influence of climate on economic development, referring to examples you have studied. (80 marks)

Number of influences:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying influence:	4 marks	4 marks
Examination:	8 SRPs	OR 6 SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Maximum of 3 × SRPs per factor if economic influence is not referred to.

QUESTION 24

Describe and account for the development of patterns of circulation in **either** the atmosphere **or** the oceans. (80 marks)

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Examination:	8 SRPs	OR 4 SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Accept impacts also (for a maximum of 3 × SRPs per impact)
- Atmospheric patterns to include global winds / local winds / rainfall patterns / water cycle etc.
- Describe but no account (or vice versa), i.e. no element if either description or explanation, mark overall coherence = 0m.