



Geoecology

Geography Marking Scheme

Higher Level

2013

Section 3 – Q 16, 17, 18

16. Examine how desertification and conservation have impacted on soil characteristics.

[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.

17. With reference to **one** biome that you have studied, account for the type of climate experienced in this biome and explain how this climate impacts on soils and vegetation within the biome.

[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).

18. Discuss how soil development is influenced by any **three** of the following factors:

- Mineral matter
- Air
- Water
- Organic matter.

[80m]

Number of aspects: 3 @ 27 + 27 + 26
Identifying aspect: 4 marks
Discussion: 8 x SRPs
Overall coherence: 7/6 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 16, 17, 18

16. Explain how weathering, leaching and podzolisation have impacted on the characteristics of soil.

[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)

17. Discuss how human activities can accelerate soil erosion.

[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)

18. Examine how any **three** of the activities listed below can impact on biomes:

- early settlement and the clearing of forests
- the felling of tropical rain forests
- intensive agricultural practices
- industrial development.

[80m]

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

2011

Section 3 – Q 16, 17, 18

16. Soil characteristics are affected by their immediate environment and by a combination of processes operating in that environment.
Examine any **three** soil processes that affect soil characteristics.

[80m]

Number of aspects: 3 @ 27 + 27 + 26
Identifying aspect: 4 marks
Discussion: 8 x SRPs
Overall coherence: 7/6 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 illustrations to a max of 2SRPs (different illustrations and in different aspects).

17. Examine the characteristics of any **one** biome that you have studied under **three** of the following headings:
- Climate
 - Soils
 - Flora
 - Fauna.

[80m]

Number of aspects: 3 @ 27 + 27 + 26
Identifying aspect: 4 marks
Discussion: 8 x SRPs
Overall coherence: 7/6 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 illustrations to a max of 2SRPs (different illustrations and in different aspects).

18. The development of economic activities can alter biomes.
Discuss this statement with reference to appropriate 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).

2010

Section 3 – Q 16, 17, 18

16. Examine the influence of climate on the characteristics of **one** biome that you that 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 biome is required for 1 SRP
- Select scheme according to number of aspects discussed
- Do not accept climate as an aspect. Aspects must be clearly tied to the influence of climate
- 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)

17. Examine **two** ways in which human activities have impacted on soils. [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)

18. Describe and explain the characteristics of any **one** soil type studied by you. [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 soil type 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)

2009

Section 3 – Q 16, 17, 18

16. With reference to **one** soil type you have studied, examine how parent material, climate and organic matter influence the soil.

[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 soil type as one SRP once

17. Discuss how human activities can accelerate soil erosion.

[80m]

Number of aspect :	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)

18. Assess how biomes have been altered by human activity.

[80m]

Number of aspect:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect:	4 marks	4 marks
Examination:	8 x SRPs	OR 6x 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 two named biome as two SRPs.
- Examination can refer to one or more biomes.

2008

Section 3 – Q 16, 17, 18

16. Examine **two** ways in which human activities have altered the natural characteristics of a biome 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

- 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)
- Allow 1 x SRP for naming of biome (once).

17. Examine **two** of the natural processes which influence soil formation.

[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)

18. Describe and explain the main characteristics of **one** biome that you have studied.

[80m]

Number of aspect:	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 aspect)
- Allow 1 x SRP for naming of biome (once).
- Naming of biome not valid as identifying characteristic

2007

Section 3 – Q 16, 17, 18

16. Examine how over-cropping/over-grazing and desertification can affect soils. (80 marks)

Number of factors:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying factor	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 (2:1/1:2/2:2/3:1/1:3)	
	➤ Allow credit for up to 2 examples from SRPs (different examples & in different aspects)	

17. Examine the general composition and characteristics of any **one** soil type 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 a soil type (once)	
	➤ Amalgamate all relevant discussion points	
	➤ Allow credit for up to 2 locations from SRPs (different locations & in different aspects)	

18. Describe how plant and animal life adapt to soil and climatic conditions in a biome which you have studied. (80 marks)

Number of aspects:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Identifying aspect of adaptation:	4 marks	4 marks
Examination:	8 x SRPs	OR 6x SRPs
Overall coherence:	7/6 marks graded	4 marks graded
	➤ Allow 1 x SRP for naming of biome (once)	
	➤ Select scheme according to number of aspects dealt with (2:1/1:2/2:2/3:1/1:3) re plant and animal life	
	➤ At least one aspect must refer to soil and at least one aspect must refer to climate	

2006

Section 3 – Q 16, 17, 18

QUESTION 16

Examine the factors that influence soil characteristics. (80 marks)

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

- Ensure difference between factors and characteristics is maintained.
- Group surplus / related characteristics.

QUESTION 17

Examine the main characteristics of a biome that you have studied. (80 marks)

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

- Naming biome not valid as identifying characteristic. (Accept it as SRP).
- Maximum of 2 characteristics from within any one of climate / soil / fauna etc.

QUESTION 18

Assess the impact of human activity on a biome that you have studied. (80 marks)

Number of impacts:	3 (27 + 27 + 26)	(4 @ 20 marks each)
Activity or impact:	4 marks	4 marks
Examination:	8 SRPs	OR 6 SRPs
Overall coherence:	7/6 marks graded	4 marks graded

- Naming a biome is not valid as identifying characteristic. (Accept it as SRP).