



# **GEOGRAPHY**

## **ATAR course examination 2017**

### **Marking Key**

Marking keys are an explicit statement about what the examining panel expect of candidates when they respond to particular examination items. They help ensure a consistent interpretation of the criteria that guide the awarding of marks.

One: Multiple-choice

20% (20 Marks)

Question	Answer
1	B
2	C
3	C
4	A
5	B
6	D
7	B
8	D
9	A
10	C
11	A
12	D
13	B
14	A
15	B
16	D
17	D
18	A
19	C
20	C

Section Two: Short response

40% (40 Marks)

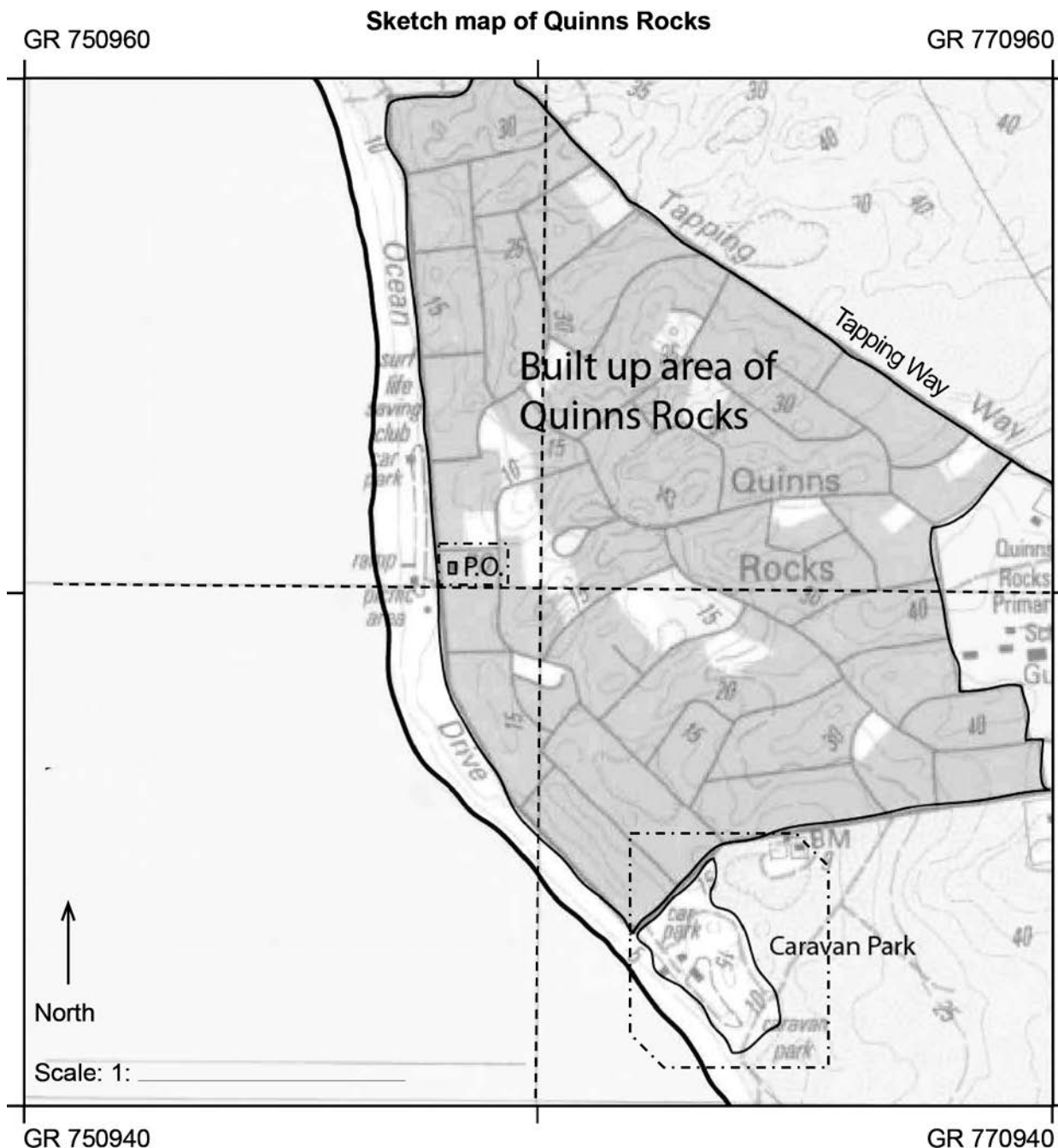
Question 21

(5 marks)

(a) Draw and annotate the following features on the sketch map below:

(4 marks)

- Built-up area of Quinns Rocks
- Tapping Way
- Caravan park
- Post Office.



## Question 21 (continued)

Description	Marks
Correctly draws in and annotates the location of all 4 features on the sketch map – i.e. Built-up area of Quinns Rocks, Tapping Way, Caravan Park, Post Office (within the accepted parameters – refer to transparency).	4
Correctly draws in and annotates the location of any 3 of the following on the sketch map – i.e. Built-up area of Quinns Rocks, Tapping Way, Caravan Park, Post Office (within the accepted parameters – refer to transparency).	3
Correctly draws in and annotates the location of any 2 of the following on the sketch map – i.e. Built-up area of Quinns Rocks, Tapping Way, Caravan Park, Post Office (within the accepted parameters – refer to transparency).	2
Correctly draws in and annotates the location of any 1 feature on the sketch map – i.e. Built-up area of Quinns Rocks, Tapping Way, Caravan Park, Post Office (within the accepted parameters – refer to transparency).	1
<b>Total</b>	<b>4</b>

- (b) In the space provided, write the scale of the sketch map expressed as a ratio. (1 mark)

Description	Marks
Identifies the correct scale.	1
<b>Total</b>	<b>1</b>
Answer: 1:12 500	

## Question 22

(2 marks)

- (a) Describe **one** site feature of the settlement at Quinns Rocks. (1 mark)

Description	Marks
Candidate correctly describes one site feature.	1
<b>Total</b>	<b>1</b>
Answers could include: <ul style="list-style-type: none"> <li>• located on a coastal plain</li> <li>• located within an undulating landscape among a number of sand dunes</li> <li>• located approx. 0–50m above sea level</li> <li>• located on the coast.</li> </ul>	

- (b) State **one** situation feature of the settlement at Quinns Rocks. (1 mark)

Description	Marks
Candidate correctly states one situation feature.	1
<b>Total</b>	<b>1</b>
If absolute location stated – the correct co-ordinate must be provided, e.g. latitude longitude co-ordinate. If relative location stated – both correct distance and direction must be stated. Answers could include: <ul style="list-style-type: none"> <li>• Situated 31°41' 30"S 116°41'30"E</li> <li>• Situated approx. 5km south west from Nowergup Lake.</li> </ul>	

## Question 23

(2 marks)

Describe the land cover change that occurred between 1986 and 2016 to the area located between the coastline and the western boundary of Neerabup National Park.

Description	Mark
Correctly describes the land cover in 1986 and the change to the land cover for 2016.	2
In identifying the land cover change, correctly identifies the land cover in either 1986 or 2016.	1
Answers could include: In 1986, the land cover was mainly crown land – ‘greenfield’. i.e. undeveloped coastal scrub/plain landscape. In 2016, the outer growth zone of the Perth Metropolitan Area had taken over the area located between the coastline and the western boundary of Neerabup National Park. The landscape in 2016 is predominately residential with its associated land uses e.g. education, retail, recreation.  i.e. 1986: bushland; coastal scrubland; natural vegetation 2016: suburbia; housing; urban	
<b>Total</b>	<b>2</b>

## Question 24

(2 marks)

Define the term ‘anthropogenic biomes’.

Description	Marks
Provides the correct definition: anthropogenic biomes are created by the <b>sustained interaction</b> of human activity with natural ecosystems.	2
Identifies that anthropogenic biomes are mainly landscapes created by humans.	1
<b>Total</b>	<b>2</b>

**Markers information:**

Anthropogenic biomes is the current ecological pattern over the Earth’s surface created by sustained direct human interaction with ecosystems i.e. anthromes created by global patterns in human populations and their use of land over the long-term.

They are categorised by density of human settlement (e.g. residential, populated, and remote) and by land use type (urban, village, cropland, rangeland and wildland).

## Question 25

(3 marks)

Explain the concept of sustainability.

Description	Marks
Explains fully the concept of sustainability including: its environmental, economic and social components and the temporal aspect of intergenerational equity.	3
Describes what sustainability is with some reference to either the environmental, economic or social components.	2
Outlines a simple definition of sustainability with limited or no reference to either the environmental, economic or social components.	1
<b>Total</b>	<b>3</b>

**Question 26****(3 marks)**

Identify **one** land management practice followed by Indigenous peoples and outline its impact on land cover change over time.

Description	Marks
Correctly identifies clearly one indigenous land management practice.	1
<b>Subtotal</b>	<b>1</b>
Correctly outlines the impact of a land cover change from one time period to another identifying the changes that have taken place as a result of the practice.	2
Outlines how the land management practice impacts the land cover.	1
<b>Subtotal</b>	<b>2</b>
<b>Total</b>	<b>3</b>
Answers could include: Aboriginal 'firestick farming' (regular, relatively controlled, low intensity burns), which encouraged the growth of smaller undergrowth plant species thereby gradually transforming dense bush/forest land cover into a more open vegetation complex better suited to their hunting and gathering activities.	

**Question 27****(3 marks)**

Select **one** of the following factors and explain how it has led to differences in the process of land cover change between any **two** countries.

- government policy
- institutional arrangements
- land ownership
- type of economy
- ideology and culture

Description	Marks
Correctly describes the differing processes of land cover change in the two selected countries and clearly explains how the operation of the selected factor has brought about these differences.	3
Describes the differing processes of land cover change in two selected countries with limited or no explanation of how the selected factor has contributed to these differences.	2
Outlines a process of land cover change in one country.	1
<b>Total</b>	<b>3</b>
Answers could include: Government policy on deforestation in Australia and Indonesia. Although both countries have some policy controls on deforestation, those in Australia are stricter and deforestation is therefore occurring at a considerably slower rate.	

## Question 28

(3 marks)

Explain how **one** of the following processes of land cover change was responsible for changes to Australia's anthropogenic biomes between 1900 and 2000. Include evidence from **Source 5** to support your answer.

- deforestation
- expansion and intensification of agriculture
- rangeland modification
- growth of urban settlement

Description	Marks
Clearly explains changes in the distribution of relevant anthropogenic biomes in Australia between 1900 and 2000. Clearly outlines how the selected process has brought about these changes. Makes accurate and specific reference to Source 5.	3
Explains some changes in the distribution of relevant anthropogenic biomes in Australia between 1900 and 2000. Makes some reference to the selected process that has brought about these changes. Makes limited reference to Source 5.	2
States some changes in the distribution of relevant anthropogenic biomes in Australia between 1900 and 2000. Makes very limited if any reference to the selected process that has brought about these changes. May make no reference to Source 5.	1
<b>Total</b>	<b>3</b>

## Question 29

(6 marks)

Describe the difference in the populations of Quinns Rocks and the Perth Metropolitan Area in the following age ranges. Include data from **Source 6** to support your answer.

Description	Marks
0–19 years: Correctly identifies the differences in proportion of the population for each area with reference to the source to support the response. i.e. refers to the statistics i.e. Perth 26%; Quinns Rocks 36%	2
Correctly identifies the differences in proportion of the population for each area.	1
<b>Subtotal</b>	<b>2</b>
20–54 years: Correctly identifies the differences in proportion of the population for each area with reference to the source to support the response. i.e. refers to the statistics i.e. Perth 47%; Quinns Rocks 51%	2
Correctly identifies the differences in proportion of the population for each area.	1
<b>Subtotal</b>	<b>2</b>
55–85 years and over: Correctly identifies the differences in proportion of the population for each area with reference to the source to support the response. i.e. refers to the statistics i.e. Perth 23%; Quinns Rocks 14%	2
Correctly identifies the differences in proportion of the population for each area.	1
<b>Subtotal</b>	<b>2</b>
<b>Total</b>	<b>6</b>

**Markers information:**

Quinns Rocks has a higher proportion of its population 0–19 than Perth. Quinns Rocks has 36% of its population aged between 0–19, whilst Perth is 26%.

Quinns Rocks has a slightly higher proportion of its population 20–54 than Perth. Quinns Rocks has 51% of its population aged 20–54, whilst Perth is 47%.

Quinns Rocks has a lower proportion of its population 55–85 than Perth. Quinns Rocks has 14% of its population aged 55–85, whilst Perth is 23%.

## Question 30

(5 marks)

- (a) Explain the concept of urbanisation.

(2 marks)

Description	Marks
Correctly explains the concept of urbanisation. The definition must include reference to proportion or a comparison to populations in rural areas.	2
Describes urbanisation without reference to proportion or comparison to rural areas. Implies urbanisation through a description of urban growth.	1
<b>Total</b>	<b>2</b>

**Markers information:**

Definition of urbanisation: is an increase in the proportion of people living in urban areas compared to rural areas. The word 'proportion' in the definition is important, because it indicates that one must deduce urbanisation by examining the numbers of people living in both rural and urban areas.

- (b) Use data from
- Source 7**
- to describe how the process of urbanisation is occurring.

(3 marks)

Description	Marks
Uses specific data (i.e. dates and totals) from Source 7 to describe both that the urban proportion of the population is increasing and the rural proportion of the population is decreasing.	3
With general reference to data from Source 7, describes both that the urban proportion of the population is increasing and the rural proportion of the population is decreasing.	2
With limited reference to data from Source 7, describes either that the urban proportion of the population is increasing or that the rural proportion of the population is decreasing.	1
<b>Total</b>	<b>3</b>



## Question 31

(6 marks)

Describe and account for the external morphology of **either** metropolitan Perth **or** a regional urban centre in Western Australia.

Description	Marks
<p>Describes and accounts for the external morphology of <b>either</b> metropolitan Perth <b>or</b> a regional urban centre in Western Australia. Description refers to two or more of the following characteristics - size, shape, area, core/node and boundary.</p> <p>Accounts for the shape of the settlement with reference to two or more of the following processes that has affected the external morphology - site factors, situational factors, functional influences, cultural influences, population growth, changing transport technologies and urban planning.</p>	5–6
<p>Describes and accounts for the external morphology of <b>either</b> metropolitan Perth <b>or</b> a regional urban centre in Western Australia. Description may refer to either size, shape, area, core/node or boundary.</p> <p>Accounts for the shape of the settlement with reference to at least one of the following processes - site factors, situational factors, functional influences, cultural influences, population growth, changing transport technologies and urban planning.</p>	3–4
<p>Outlines some details regarding the external morphology of <b>either</b> metropolitan Perth <b>or</b> a regional urban centre in Western Australia. May indicate any one of the following – size, shape, area, core/node and boundary.</p> <p>May refer to at least one process that accounts for the shape.</p>	1–2
<b>Total</b>	<b>6</b>

**Markers information:**

Both the description of the external morphology and the processes affecting the external morphology should be treated equally. For example, if a candidate provides an excellent description of the external morphology of a settlement without reference to the processes the maximum mark awarded should be 3 marks.

## Question 32

(20 marks)

- (a) Describe the effects of either climate change **or** biodiversity loss on natural and anthropogenic biomes. (12 marks)

Description	Marks
<p><b>For climate change:</b> Describes clearly and in detail more than one effect of climate change in natural biomes (e.g. temperature and precipitation change, sea level rise, increased incidence of extreme events, melting ice sheets) and more than one effect of climate change in anthropogenic biomes (e.g. threats to water resources and agriculture, flooding in low lying and coastal areas).</p> <p><b>For loss of biodiversity:</b> Describes clearly and in detail more than one effect of loss of biodiversity in natural biomes (e.g. simplification of ecosystems; habitat loss; loss of ecosystem services such as water filtration, climate regulation, nutrient cycling, photosynthesis and soil formation) and more than one effect of the loss of biodiversity in anthropogenic biomes (e.g. loss of benefits for people such as access to natural resources, foods and medicines, regulation of some human diseases, aesthetic and spiritual values).</p> <p>Response should include a comprehensive description with numerous details, including relevant and accurate examples which vary in scale and support the answer. Accurate and relevant geographical terms are used.</p>	11–12
<p><b>For climate change:</b> Describes clearly more than one effect of climate change in natural biomes and more than one effect of climate change in anthropogenic biomes.</p> <p><b>For loss of biodiversity:</b> Describes clearly more than one effect of loss of biodiversity in natural biomes and more than one effect of the loss of biodiversity in anthropogenic biomes.</p> <p>Response should include a clear description, including some relevant and accurate examples which vary in scale and provide some support for the answer. Accurate and relevant geographical terms are used.</p>	9–10
<p><b>For climate change:</b> Describes clearly at least one effect of climate change in natural biomes and at least one effect of climate change in anthropogenic biomes.</p> <p><b>For loss of biodiversity:</b> Describes clearly at least one effect of loss of biodiversity in natural biomes and at least one effect of the loss of biodiversity in anthropogenic biomes.</p> <p>Response should include a description, including some relevant examples which vary in scale and may provide some support for the answer. Some accurate and relevant geographical terms are used.</p>	7–8

<p><b>For climate change:</b> Outlines the effects of climate change on both natural and anthropogenic biomes. Outlines what climate change is but provides limited detail on the effect upon natural and anthropogenic biomes.</p> <p><b>For loss of biodiversity:</b> Outlines the effects of the loss of biodiversity on both natural and anthropogenic biomes. Outlines what the loss of biodiversity means but provides limited detail on the effect upon natural and anthropogenic biomes.</p> <p>Response includes a brief description with limited details. Little variation in terms of scale and examples are provided. Some appropriate geographical terms are used.</p>	5–6
<p><b>For climate change:</b> Outlines the effects of climate change on natural and/or anthropogenic biomes. Outlines what climate change is but provides little detail on the effect upon natural and/or anthropogenic biomes.</p> <p><b>For loss of biodiversity:</b> Outlines the effects of the loss of biodiversity on natural and/or anthropogenic biomes. Outlines what the loss of biodiversity means but provides little detail on the effect upon natural and/or anthropogenic biomes.</p> <p>Response may include very few details. Little to no variation in terms of scale and examples are provided. Few geographical terms are used.</p>	3–4
<p>States the effects of either climate change or biodiversity loss on natural or anthropogenic biomes.</p> <p>Response may not use geographical terms.</p>	1–2
<b>Total</b>	<b>12</b>

**Markers information:**

Both the natural and anthropogenic biomes should be treated equally. For example, if a candidate provides a thorough description of the effects of climate change or biodiversity loss on a natural biome but not on anthropogenic biomes, the maximum result should be 6 marks.

**Question 32** (continued)

- (b) Discuss **one** approach to land cover restoration and rehabilitation and explain how it mitigates future land cover changes. (8 marks)

Description	Marks
<p>Discusses one approach to land cover restoration and rehabilitation. Describes the restoration and rehabilitation process from its origin to current status. Detail and examples of the restoration and rehabilitation process provided.</p> <p>Thoroughly explains how the land cover restoration and rehabilitation process mitigates future land cover changes. Explains in detail the interaction of the land cover restoration and rehabilitation with natural processes that will enable recovery of ecosystem services. i.e. nutrient cycling, biodiversity recovery.</p> <p>Response should include details, vary in scale and provide relevant and accurate examples. Uses accurate and relevant geographical terms.</p>	7–8
<p>Discusses one approach to land cover restoration and rehabilitation. Describes the restoration and rehabilitation process from its origin to current status. Some detail and an example of the restoration and rehabilitation process provided.</p> <p>Explains how the land cover restoration and rehabilitation process mitigates future land cover changes. Explains with some detail some interaction of the land cover restoration and rehabilitation with natural processes that will enable recovery of ecosystem services. i.e. nutrient cycling, biodiversity recovery.</p> <p>Response may include some details, vary in scale and may provide relevant examples. Uses some appropriate geographical terms.</p>	5–6
<p>Identifies, in general terms, one approach to land cover restoration and provides a limited explanation of how this approach will mitigate future land cover changes. May use some examples.</p> <p>Response uses some appropriate geographical terms.</p>	3–4
<p>Identifies one approach to land cover restoration and provides little or no explanation of how this will mitigate future land cover changes. Fails to use examples.</p> <p>Response rarely uses geographical terms.</p>	1–2
<b>Total</b>	<b>8</b>

**Markers information:**

Both the discussion of land cover restoration and rehabilitation and how such a process mitigates future land cover changes should be treated equally. Therefore, if a candidate provides a thorough discussion of the land cover restoration and rehabilitation plan but little on how it mitigates future land cover changes, the maximum marks awarded should be 4 marks.

## Question 33

(20 marks)

- (a) Describe the key elements of ecosystem structure and dynamics.

or

Describe any **two** of the following natural systems:

- heat budget
- hydrological cycle
- carbon cycle
- atmospheric circulation.

(12 marks)

Description	Marks
<b>Description of the ecosystem structure and dynamics</b>	
Describes clearly and in detail the key elements of ecosystem structure and dynamics (biotic and abiotic elements, food chains and webs, biomass, trophic levels, flows of matter and energy). Supports this description with relevant and accurate quantitative and/or spatial information (which may be in diagrammatic or cartographic form) where this is appropriate.  Response should include a comprehensive description with numerous details, including relevant and accurate examples which vary in scale and support the answer. Accurate and relevant geographical terms are used.	11–12
Describes the key elements of ecosystem structure and dynamics (biotic and abiotic elements, food chains and webs, biomass, trophic levels, flows of matter and energy) in detail. Supports this description with relevant quantitative and/or spatial information (which may be in diagrammatic or cartographic form) where this is appropriate.  Response should include a detailed description with some relevant examples which vary in scale and provide some support for the answer. Accurate and relevant geographical terms are used.	9–10
Describes clearly most of the elements of ecosystem structure and dynamics (biotic and abiotic elements, food chains and webs, biomass, trophic levels, flows of matter and energy). Supports this description with some relevant quantitative and/or spatial information (which may be in diagrammatic or cartographic form) where this is appropriate.  Response includes a description with some relevant examples which vary in scale and may provide some support for the answer. Some accurate and relevant geographical terms are used.	7–8
Describes some of the elements of ecosystem structure and dynamics (biotic and abiotic elements, food chains and webs, biomass, trophic levels, flows of matter and energy). May support the description with limited quantitative and/or spatial information (which may be in diagrammatic or cartographic form).  Response includes a brief description with limited details. Little variation in terms of scale and examples are provided. Some appropriate geographical terms are used.	5–6
Describes few of the elements of ecosystem structure and dynamics (biotic and abiotic elements, food chains and webs, biomass, trophic levels, flows of matter and energy). May support the description with limited quantitative or spatial information (which may be in diagrammatic or cartographic form).  Response may include very few details. Little to no variation in terms of scale and examples provided. Few geographical terms are used.	3–4

## Question 33 (continued)

Describes at least one of the elements of ecosystem structure and dynamics (biotic and abiotic elements, food chains and webs, biomass, trophic levels, flows of matter and energy). Fails to support the description with quantitative and/or spatial information.	1–2
Response may not use geographical terms.	
<b>Total</b>	<b>12</b>

or

<b>Description of the elements of two natural systems 6 marks each</b>	
Describes clearly and in detail the key elements of <b>any two</b> of the following natural systems: heat budget, hydrological cycle, carbon cycle, atmospheric circulation. Supports this description with relevant quantitative and/or spatial information (which may be in diagrammatic or cartographic form) where this is appropriate.	5–6
Response should include details, vary in scale and provide relevant and accurate examples. Uses accurate and relevant geographical terms.	
Describes the key elements of <b>any two</b> of the following natural systems: heat budget, hydrological cycle, carbon cycle, atmospheric circulation. May support the description with limited quantitative and/or spatial information (which may be in diagrammatic or cartographic form).	3–4
Response uses some appropriate geographical terms.	
Describes some elements of <b>any two</b> of the following natural systems: heat budget, hydrological cycle, carbon cycle, atmospheric circulation. Fails to support the description with quantitative and/or spatial information.	1–2
Response rarely uses geographical terms.	
<b>Subtotal</b>	<b>6</b>
<b>Total</b>	<b>12</b>

**Markers Note:**

If a candidate completes an excellent answer for **one** natural system, the maximum marks awarded should be 6 marks.

- (b) Identify and discuss a program designed to address the impacts of land cover change on local and regional environments. (8 marks)

Description	Marks
<p>Correctly identifies a specific program designed to address the impacts of land cover change and discusses in detail how this program has addressed or is designed to address the impacts of land cover change on local and regional environments.</p> <p>Response should include details, vary in scale and provide relevant and accurate examples (both local and regional environments). Uses accurate and relevant geographical terms.</p>	7–8
<p>Correctly identifies a program designed to address the impacts of land cover change and discusses, in general terms, how this program has addressed or is designed to address the impacts of land cover change on local and regional environments.</p> <p>Response may include some details, vary in scale and may provide relevant examples (both local and regional environments). Uses some appropriate geographical terms.</p>	5–6
<p>Identifies, in general terms, a program designed to address the impacts of land cover change and provides a limited discussion of how this program has addressed or is designed to address the impacts of land cover change on local and regional environments.</p> <p>Response uses some appropriate geographical terms. May use some examples (local and regional environments).</p>	3–4
<p>Names a program designed to address the impacts of land cover change and provides little or no discussion of how local and regional environments have been or may be affected.</p> <p>A basic description with little detail. Information might be in dot point form. Fails to provide examples. Limited evidence used and response contains many generalisations. Misuses geographical terms.</p>	1–2
<b>Total</b>	<b>8</b>

## Question 34

(20 marks)

(a) Describe the site and internal morphology of a megacity.

(8 marks)

Description	Marks
<b>Site</b>	
Detailed description of the site of a megacity.	3
Describes some of the site features of a megacity.	2
States a site feature of a megacity.	1
<b>Subtotal</b>	<b>3</b>
<b>Internal morphology</b>	
Describes in detail the pattern of the internal morphology of a megacity with detail of land use functions and details of their relative location within the settlement.	4–5
Describes the pattern of the internal morphology of a megacity with detail of land use functions and details of their relative location within the settlement.	2–3
Outlines the internal morphology of a megacity with minor detail of land use functions and an outline of their relative location within the settlement.	1
<b>Subtotal</b>	<b>5</b>
<b>Total</b>	<b>8</b>
<p>Answers could include:</p> <p><b>Site:</b> Description should include a description of site features such as proximity to major landform features and landform upon which it is built.</p> <p><b>Internal morphology:</b> Description should include various land use functions with reference to their size/area and relative location to the main CBD (or main node) of the settlement.</p>	



- (b) Describe **two** significant challenges and explain the implications of each for metropolitan Perth or a regional centre in Western Australia. (12 marks)

Description	Marks
<b>2 challenges x 6 marks each</b>	
Describes clearly the challenge and explains in detail the implications of the challenge facing metropolitan Perth or a regional centre in Western Australia.  Extensive use of detailed and factual evidence is used to support the description and explanation. Cites specific and relevant examples to support the response. Uses accurate and relevant geographical terms.	5–6
Describes the challenge and explains the implications of the challenge facing metropolitan Perth or a regional centre in Western Australia.  Uses accurate evidence throughout the description and explanation. Cites some relevant examples to support the arguments made. Uses some appropriate geographical terms.	3–4
Outlines the challenge but fails to explain the implications of the challenge facing metropolitan Perth or a regional centre in Western Australia.  A basic description with little detail. Information might be in dot point form. Limited evidence used and response contains many generalisations. Unlikely to cite example(s) to support the answer. Misuses geographical terms.	1–2
<b>Subtotal</b>	<b>6</b>
<b>Total</b>	<b>12</b>
<p>Answers could include: Challenges can include the following: Housing, economic restructuring, employment, transportation congestion, environmental degradation, waste management, personal safety, land abandonment, urban sprawl, socio-spatial inequality, social inclusion and exclusion, changing demographics.</p>	

## Question 35

(20 marks)

- (a) Describe the nature, scope and causes of any **two** significant challenges confronting a megacity. (8 marks)

Description	Marks
<b>2 challenges x 4 marks each</b>	
Describes the nature (characteristics) of one significant challenge confronting a megacity.	1
Describes the scope (scale) of one significant challenge confronting a megacity.	1
Describes in detail the causes of one significant challenge confronting a megacity.	1–2
<b>Subtotal</b>	<b>4</b>
<b>Total</b>	<b>8</b>
<p>Answers could include:            Challenges can include the following: Housing, economic restructuring, employment, transportation congestion, environmental degradation, waste management, personal safety, land abandonment, urban sprawl, socio-spatial inequality, social inclusion and exclusion, changing demographics.</p>	

To answer question 35(b),

- select **one** planning strategy adopted in metropolitan Perth or a regional centre in Western Australia

or

- one** planning strategy adopted in a megacity.

- (b) Describe the selected planning strategy and explain the extent to which it has been or could be informed by the concept of sustainability. (12 marks)

Description	Marks
<p>Identifies and describes clearly and in detail a specific planning strategy which is clearly assessable in sustainability terms. Explains in detail, how the selected planning strategy has been or could be informed by the various components of the concept of sustainability.</p> <p>Extensive detailed and accurate evidence is used to support the description and explanation. Specific and relevant examples are cited to support the response. Accurate and relevant geographical terms are used.</p>	11–12
<p>Identifies and describes clearly a specific planning strategy which is clearly assessable in sustainability terms. Explains in some detail, how the selected planning strategy has been or could be informed by the various components of the concept of sustainability.</p> <p>Detailed and accurate evidence is used to support the description and explanation. Relevant examples are cited to support the response. Accurate and relevant geographical terms are used.</p>	9–10
<p>Identifies and describes clearly a planning strategy which is assessable in sustainability terms. Explains how the selected planning strategy has been or could be informed by some of the various components of the concept of sustainability.</p> <p>Some accurate evidence is used to support the description and explanation. Some relevant examples are used to support the response. Some relevant geographical terms are used.</p>	7–8
<p>Identifies and briefly describes a planning strategy or approach which is assessable in sustainability terms. Explains in limited terms, how the selected planning strategy has been or could be informed by a few of the components of the concept of sustainability.</p> <p>Some evidence is used which may support the response. Some examples and geographical terms are used.</p>	5–6
<p>Identifies a planning strategy or approach which is assessable in sustainability terms. Briefly describes how the selected planning strategy has been or could be informed by a few of the components of the concept of sustainability.</p> <p>Limited evidence is used which may support the response. Limited examples and geographical terms are used.</p>	3–4
<p>Identifies a planning strategy or approach which may be assessable in sustainability terms. Provides limited or no description of how the selected planning strategy has been or could be informed by any of the components of the concept of sustainability.</p> <p>Little to no evidence is used and the response contains many generalisations. Minimal to no examples are provided. Geographical terms are used incorrectly.</p>	1–2
<b>Total</b>	<b>12</b>

## ACKNOWLEDGEMENTS

- Question 21** Map extract from: Landgate. (1986). *Topographic map Yanchep* (2034 IV SE). Midland: Western Australia Land Information Authority. Reproduced with permission of the Western Australian Land Information Authority, Landgate (2017)
- Question 29** Data source: Australian Bureau of Statistics. (2011). *SSC50668–Quinns Rocks census community profile*. Retrieved November, 2017, from [www.censusdata.abs.gov.au/census\\_services/getproduct/census/2011/communityprofile/SSC50668?opendocument&navpos=220](http://www.censusdata.abs.gov.au/census_services/getproduct/census/2011/communityprofile/SSC50668?opendocument&navpos=220)

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*Published by the School Curriculum and Standards Authority of Western Australia  
303 Sevenoaks Street  
CANNINGTON WA 6107*