

B O A R D O F S T U D I E S
NEW SOUTH WALES

2012

**HIGHER SCHOOL CERTIFICATE
EXAMINATION**

Geography

General Instructions

- Reading time – 5 minutes
- Working time – 3 hours
- Write using black or blue pen
Black pen is preferred
- Board-approved calculators may be used
- A Stimulus Booklet is provided with this paper
- Write your Centre Number and Student Number at the top of pages 9, 11, 13 and 15

Total marks – 100

Section I Pages 2–7

20 marks

- Attempt Questions 1–20
- Allow about 35 minutes for this section

Section II Pages 9–16

40 marks

- Attempt Questions 21–24
- Allow about 1 hour and 10 minutes for this section

Section III Page 17

40 marks

- Attempt TWO questions from Questions 25–27
- Allow about 1 hour and 15 minutes for this section

Section I

20 marks

Attempt Questions 1–20

Allow about 35 minutes for this section

Refer to the Stimulus Booklet

Use the multiple-choice answer sheet for Questions 1–20.

1 Refer to Sources *G* and *H* on page 3 of the Stimulus Booklet to answer Question 1.

Which of the following is best illustrated by Sources *G* and *H*?

- (A) The need for population growth
- (B) The dynamics of weather and climate
- (C) The future directions of an economic activity
- (D) The importance of ecosystem management and protection

Refer to Source *F* on pages 2–3 of the Stimulus Booklet to answer Questions 2–5.

2 What is the latitude and longitude of the spot height at Mt Marsden?

- (A) 35° 34'S 137° 35'E
- (B) 35° 34'N 137° 35'W
- (C) 137° 35'S 35° 34'N
- (D) 137° 35'N 35° 34'W

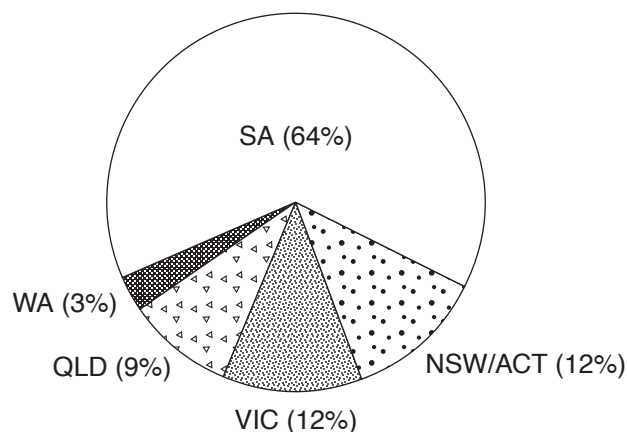
3 A tourist wants to fly to Kangaroo Head (AR 7664).

What is the grid reference of the landing ground close to Kangaroo Head (AR 7664)?

- (A) 751639
- (B) 752640
- (C) 768639
- (D) 769640

- 4 What is the bearing of the ruin in AR 7563 from Warrawee (AR 7162)?
- (A) 73°
 (B) 83°
 (C) 253°
 (D) 263°
- 5 What is the approximate area of Murray Lagoon (non-perennial lake) at AR 7162?
- (A) 2 km²
 (B) 5 km²
 (C) 8 km²
 (D) 11 km²
- 6 The graph shows visitors to Kangaroo Island.

**Domestic visitors to Kangaroo Island
 by origin, 2006–2008**



Average domestic visitors = 106 000 per annum

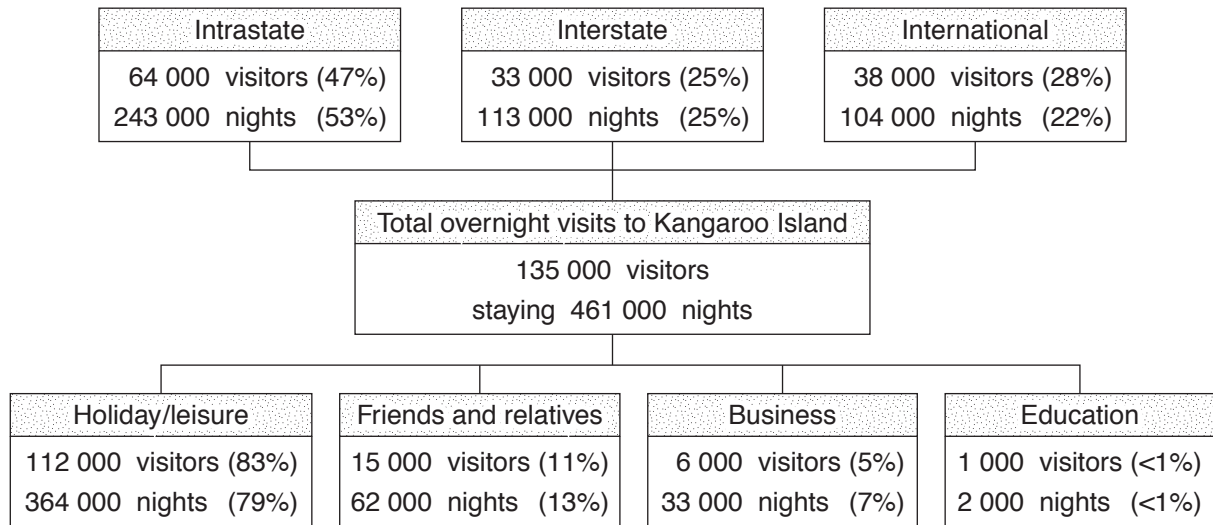
Reproduced by permission of the South Australian Tourism Commission.

How many people visited Kangaroo Island from Victoria during 2006–2008?

- (A) 9 540
 (B) 28 620
 (C) 38 160
 (D) 203 520

Refer to the stimulus below to answer Questions 7–9.

Kangaroo Island market summary 2008
(figures approximate to the closest '000)



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- 7 Refer to Source *G* on page 3 of the Stimulus Booklet and the stimulus above to answer Question 7.

Which visitor group is likely to have the greatest impact on Kangaroo Island's environment?

- (A) Business
 - (B) Education
 - (C) Holiday/leisure
 - (D) Friends and relatives
- 8 What percentage of visitors to Kangaroo Island were from Australia?
- (A) 25%
 - (B) 47%
 - (C) 53%
 - (D) 72%
- 9 On average, how many nights did visitors stay on Kangaroo Island?
- (A) One to two
 - (B) Three to four
 - (C) Five to six
 - (D) Seven to eight

Refer to Source *D* on page 1 of the Stimulus Booklet to answer Questions 10–11.

10 What is the average annual precipitation for Bangkok?

- (A) 120 mm
- (B) 125 mm
- (C) 1495 mm
- (D) 1498 mm

11 What is the temperature range for Bangkok?

- (A) 1.5°C
- (B) 3°C
- (C) 4.5°C
- (D) 6°C

Refer to Source *E* on page 1 of the Stimulus Booklet to answer Questions 12–13.

12 Which of the following is a major problem in Bangkok?

- (A) Increasing rice yields
- (B) Street stalls and sellers
- (C) Uneven employment sectors
- (D) Canal pollution and crowding

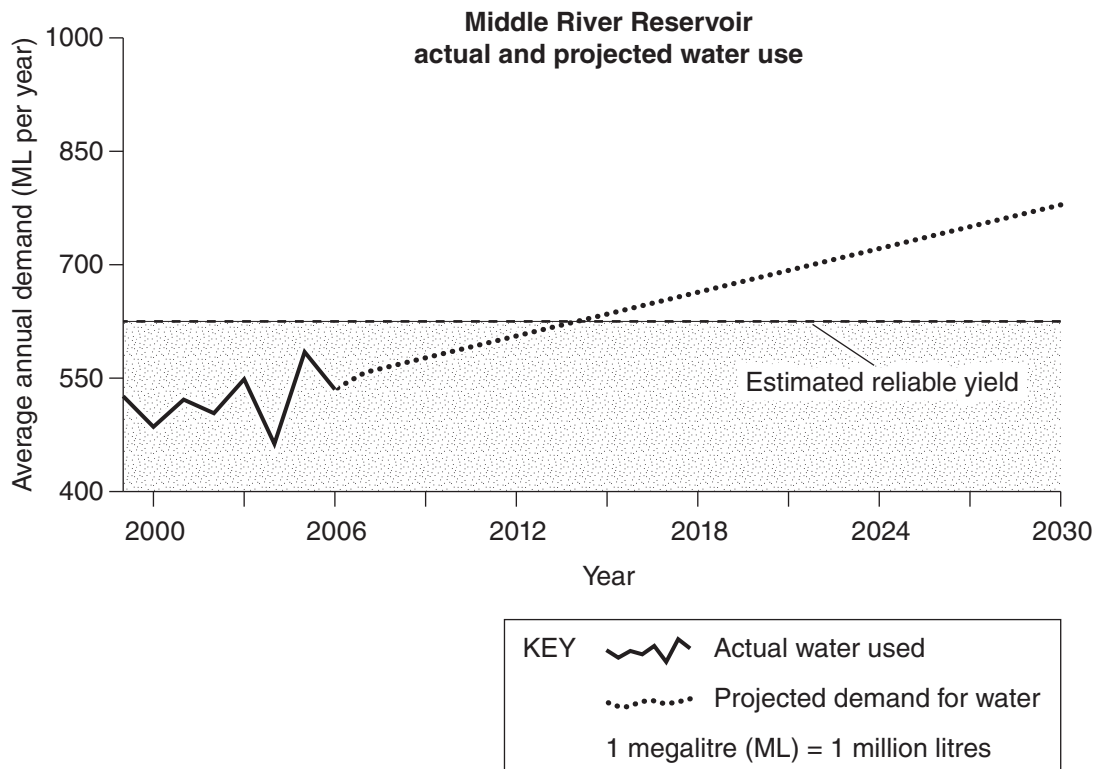
13 What makes Bangkok an example of a world city?

- (A) It is a regional hub for trade and tourism.
- (B) It has more than eight million people.
- (C) It is the capital city of Thailand.
- (D) It is a major rice exporter.

Refer to Source *I* on page 4 of the Stimulus Booklet to answer Questions 14–15.

- 14** Approximately how many minutes will it take to travel from N8 Ferry dock (B6) non-stop to N11 Ferry dock (B4) on the local ferry line, travelling at a speed of 8 km/h?
- (A) 7
 - (B) 11
 - (C) 15
 - (D) 19
- 15** In what direction was the photographer facing when the photograph in Source *A* was taken?
- (A) East
 - (B) West
 - (C) North
 - (D) South
- 16** Which of the following sources from the Stimulus Booklet has the smallest scale?
- (A) *A*
 - (B) *C*
 - (C) *F*
 - (D) *I*
- 17** Which of the following best describes the term *exurbanisation*?
- (A) The creation of walled estates
 - (B) A decline in the total population
 - (C) Affluent people moving to rural areas
 - (D) A clustering of people with a common culture

Refer to the stimulus below to answer Questions 18–20.



- 18** What was the approximate amount of water used in 2000?
- (A) 450 ML
(B) 475 ML
(C) 500 ML
(D) 525 ML
- 19** In which year is demand projected to reach the estimated reliable yield?
- (A) 2012
(B) 2013
(C) 2014
(D) 2015
- 20** In 2030, by how much will the demand for water be likely to exceed the reliable yield?
- (A) 0 ML
(B) 150 ML
(C) 650 ML
(D) 800 ML

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Geography

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Centre Number

Section II

40 marks

Attempt Questions 21–24

Allow about 1 hour and 10 minutes for this section

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Student Number

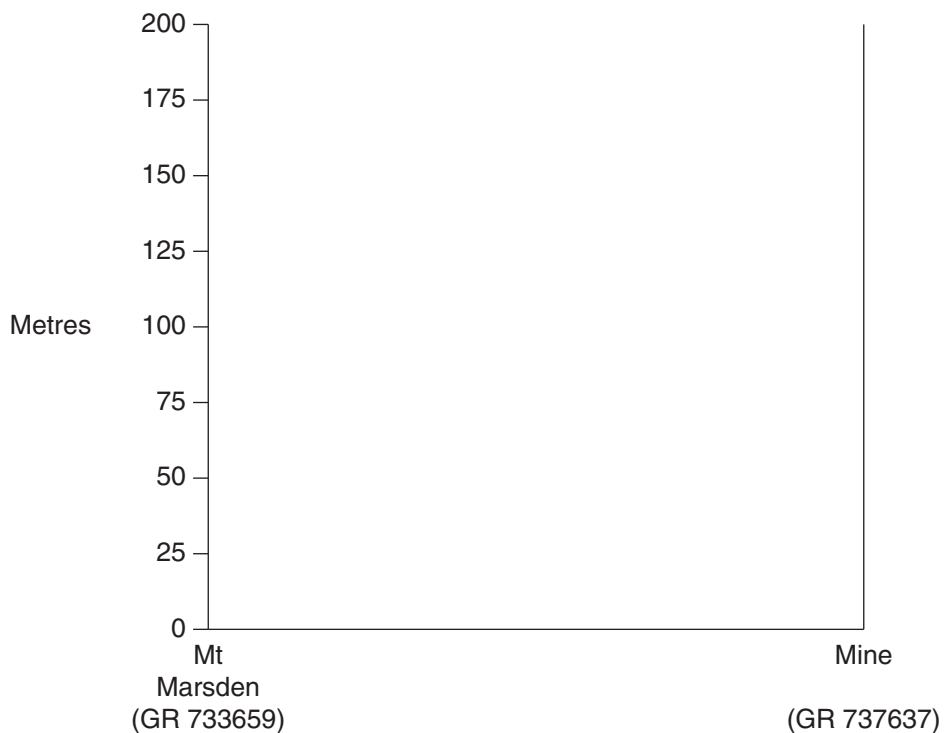
Use the Stimulus Booklet and your knowledge of geography to answer Questions 21–24 in the spaces provided. These spaces provide guidance for the expected length of response.

Question 21 (5 marks)

Please turn over

Question 21 (5 marks)

Refer to pages 2 and 3 of the Stimulus Booklet to answer Question 21.



(a) Construct a cross-section from the spot height at Mt Marsden (GR 733659) to the mine (GR 737637), and label two features. **3**

(b) Calculate the vertical exaggeration of the cross-section. **1**

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(c) Calculate the gradient from the spot height at Mt Marsden to the lighthouse at GR 737661. **1**

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2012 HIGHER SCHOOL CERTIFICATE EXAMINATION

Geography

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Centre Number

Section II (continued)

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Student Number

Question 22 (11 marks)

Please turn over

Question 22 (11 marks)

- (a) Outline ONE biophysical interaction that contributes to a diverse ecosystem. **2**

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- (b) Describe a change that affects the functioning of an ecosystem you have studied. **4**

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- (c) Discuss the positive OR negative human impacts on an ecosystem at risk. **5**

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Section II (continued)

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Question 23 (11 marks)

- (a) Outline ONE urban dynamic of change operating in a country town or suburb. **2**

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- (b) Using examples, describe the spatial distribution of world cities. **4**

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Question 23 continues on page 14

Question 23 (continued)

(c) Account for the social structure of a large city in the developed world.

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End of Question 23



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Centre Number

Section II (continued)

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Student Number

Question 24 (13 marks)

Refer to an economic activity and economic enterprise that you have studied.

<p>Economic activity:</p> <p>Economic enterprise:</p>

- (a) Outline the nature of this economic activity in a global context. 3

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Question 24 continues on page 16

Question 24 (continued)

- (b) How have locational factors contributed to the operation of this economic enterprise? **4**

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- (c) Identify TWO linkages within this economic enterprise. Provide reasons for each linkage. **6**

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End of Question 24

Geography

Section III

40 marks

Attempt TWO questions from Questions 25–27

Allow about 1 hour and 15 minutes for this section

Answer each question in a SEPARATE writing booklet. Extra writing booklets are available.

In your answers you will be assessed on how well you:

- demonstrate geographical knowledge and understanding relevant to the question
 - communicate ideas and information using geographical terms and concepts appropriately
 - refer to case studies, illustrative examples and the Stimulus Booklet where appropriate
 - present a sustained, logical and cohesive response
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Question 25 (20 marks)

Evaluate the impact of both traditional and contemporary management strategies on TWO ecosystems at risk.

Question 26 (20 marks)

How effective are the responses to the challenges of living in a mega city in the developing world?

Question 27 (20 marks)

Analyse the environmental, social and economic impacts of an economic activity.

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Source B – Tuk tuk in Bangkok



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Source G – Journal entry,
Kangaroo Island

Arrived at Kangaroo Island after a one-hour trip by vehicular ferry from the mainland.

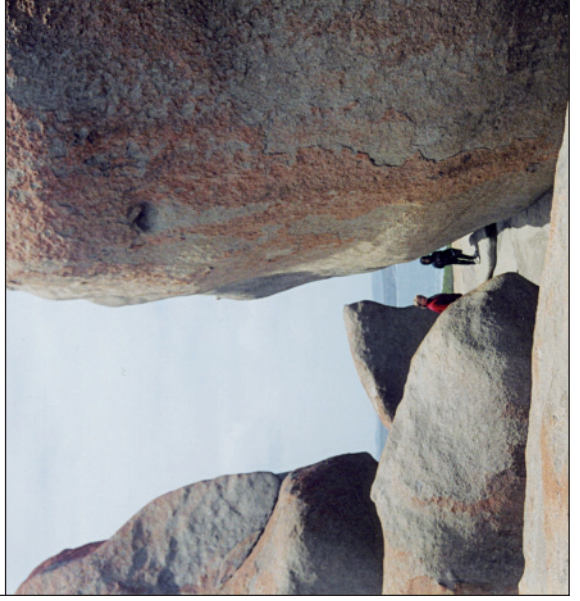
Kangaroo Island, Australia's third largest island shares delicate wilderness areas with human induced activities such as farming and tourism.

Since the 19th century, the island has been used for a number of commercial activities ranging from sheep and dairy production to salt mining, sealing and eucalypt production. In recent years, Kangaroo Island has become known worldwide for its viticulture and the production of honey.

The establishment of wilderness areas to protect unique seal, sea lion and native species of animals such as the Tamar Wallaby, bandicoots and sand goannas help resolve the conflict between human commercial land use and maintaining a unique natural environment.

The popularity of Kangaroo Island as a tourism destination (approximately 135 000 visitors per annum) is placing growing pressure on the natural environment.

Source H – Kangaroo Island photos



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