



HIGHER SCHOOL CERTIFICATE EXAMINATION

1998  
**GEOGRAPHY**  
2/3 UNIT (COMMON)

*Time allowed—Three hours  
(Plus 5 minutes reading time)*

**DIRECTIONS TO CANDIDATES**

- You should receive this paper with the Broadsheet.
- Board-approved calculators may be used.

**Section I** (25 marks)

- **Part A** (15 marks) Attempt ALL questions.

Complete your answers in blue or black pen, or in pencil on the Answer Sheet provided.

Select the alternative A, B, C or D that best answers the question.

- **Part B** (10 marks) Attempt BOTH questions.

Answer the questions in the spaces provided in this paper.

**Section II** (75 marks)

- Attempt THREE questions, each from a different Option.
- Each question is worth 25 marks.
- Answer each question in Section II in a SEPARATE Writing Booklet.
- You may ask for extra Writing Booklets if you need them.

**SECTION I**

(25 Marks)

**PART A**

(15 Marks)

The questions in Part A refer to the Broadsheet.

Allow about 25 minutes for this Part.

Attempt ALL questions.

Each question is worth 1 mark.

Complete your answers in blue or black pen, or in pencil on the Answer Sheet provided.

Select the alternative A, B, C or D that best answers the question.

Use the diagram of **Southeast Asian population 1990 and 2000 (projected)** on page 1 of the Broadsheet to answer Question 1.

1. The projected population of Singapore in the year 2000 is approximately

- (A) 1 000 000
- (B) 3 000 000
- (C) 5 000 000
- (D) 10 000 000

Use the table of **Percentage of world population living in urban areas** on page 1 of the Broadsheet to answer Question 2.

2. The region with the greatest proportional change in the percentage of population living in urban areas between 1950 and 2000 is

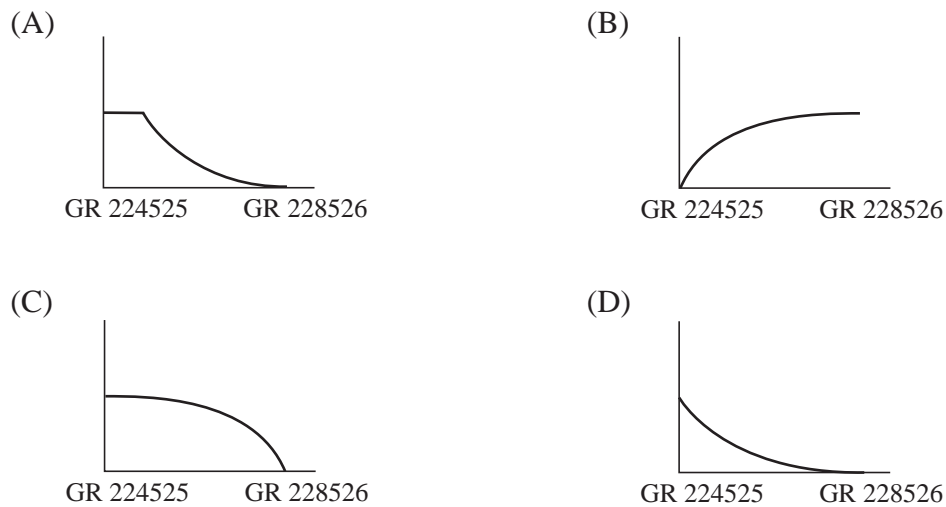
- (A) Africa.
- (B) Latin America.
- (C) North America.
- (D) South Asia.

Use the topographic map of **Salt Lake City, Utah** on page 2 of the Broadsheet to answer Questions 3 to 7.

3. The latitude and longitude of the Radio Towers found in AR 2050 are

- (A)  $50^{\circ}00'00''\text{N}$        $111^{\circ}57'40''\text{W}$
- (B)  $40^{\circ}50'00''\text{N}$        $111^{\circ}57'40''\text{W}$
- (C)  $111^{\circ}57'40''\text{W}$        $50^{\circ}00'00''\text{N}$
- (D)  $40^{\circ}50'00''\text{N}$        $111^{\circ}57'40''\text{E}$

4. The shape that best represents the cross-section from GR 224525 to GR 228526 is



5. The average gradient of Ricks Creek from its source (GR 231531) to the Gaging Station (GR 223527) is

- (A)  $1/5$
- (B)  $1/50$
- (C)  $1/500$
- (D)  $1/5000$

6. What is the area of the built-up land surface in AR 2249?

- (A)  $2500 \text{ m}^2$
- (B)  $25000 \text{ m}^2$
- (C)  $2.5 \text{ km}^2$
- (D)  $25 \text{ km}^2$

7. The light-duty road from State Capitol (AR 2149) to ROTARY PARK (AR 2350)
- (A) follows a ridge.
  - (B) crosses a scarp.
  - (C) follows a valley.
  - (D) crosses a plateau.

Use the stimulus material on page 3 of the Broadsheet to answer Questions 8 to 12.

8. The bearing from Signal Mountain campground to the Teton campground is approximately
- (A)  $70^\circ$
  - (B)  $110^\circ$
  - (C)  $250^\circ$
  - (D)  $290^\circ$
9. The most likely location of the photographer when taking the photograph of the view of the Grand Teton Range was
- (A) Teton Glacier Turnout.
  - (B) Grand Targhee Resort Ski Area.
  - (C) Jenny Lake Lodge.
  - (D) Death Canyon Trailhead.
10. The seasonal pattern of precipitation in the Grand Teton area is
- (A) evenly distributed.
  - (B) spring dominant.
  - (C) summer dominant.
  - (D) winter dominant.
11. When would the road between Moose Visitor Center and South Jenny Lake most likely be closed?
- (A) January
  - (B) April
  - (C) July
  - (D) October

12. What is the dominant direction of flow of the Snake River in the south-east quadrant of the map?
- (A) NE
  - (B) S
  - (C) NW
  - (D) SW

Use the **World's top 15 tourism earners** table on page 4 of the Broadsheet to answer Question 13.

13. Which continent had the greatest market share of world tourism in 1996?
- (A) North America
  - (B) Europe
  - (C) Asia
  - (D) Australia

Use the **Global trade in manufactured products** information on page 4 of the Broadsheet to answer Question 14.

14. What country contributes \$12 US billion to global trade in paper and paperboard?
- (A) Belgium/Luxembourg
  - (B) Netherlands
  - (C) USA
  - (D) Germany

Use the maps on pages 2, 3 and 4 of the Broadsheet to answer Question 15.

15. The map with the smallest scale is labelled
- (A) Salt Lake City, Utah.
  - (B) Grand Teton area.
  - (C) USA map.
  - (D) Australian raw cotton exports 1996/1997.

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**MARKER'S USE ONLY**

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**STUDENT NUMBER**

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**1998****HIGHER SCHOOL CERTIFICATE EXAMINATION****GEOGRAPHY****2/3 UNIT (COMMON)—SECTION I**

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**CENTRE NUMBER**

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**PART B**

(10 Marks)

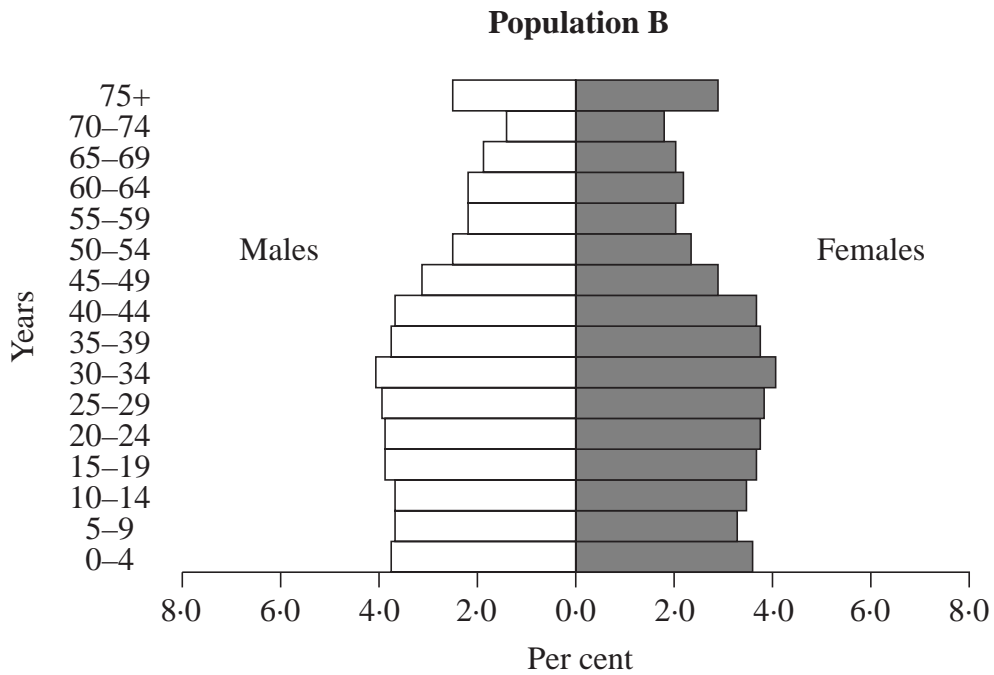
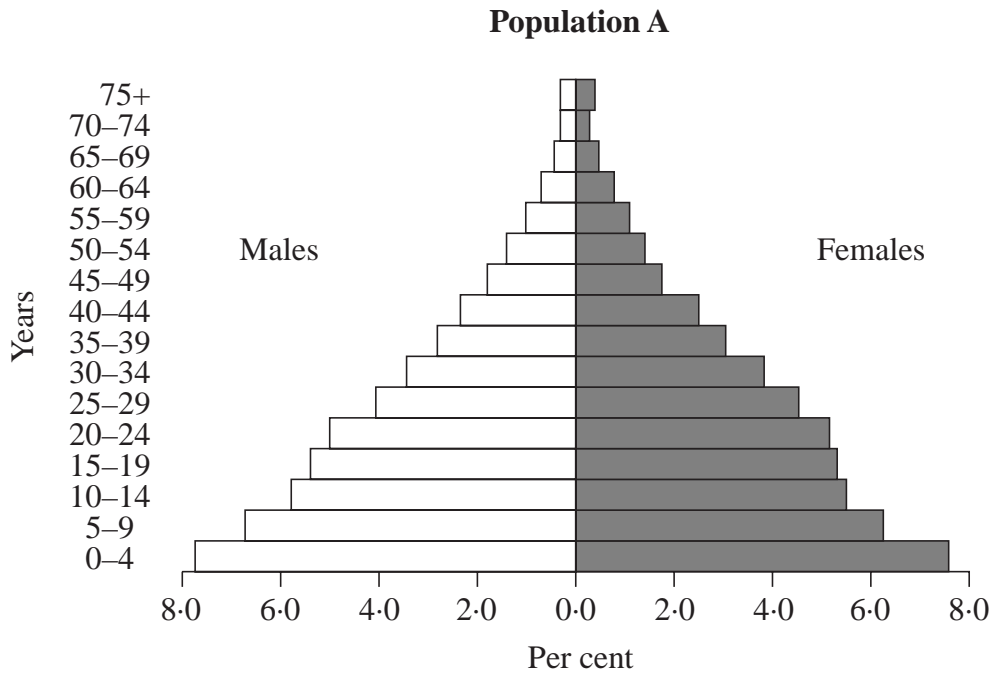
Allow about 20 minutes for this Part.

Attempt BOTH questions.

Answer the questions in the spaces provided in this paper.

**Please turn over**

16. Study the population pyramids.



*NSW Atlas of the Australian People, 1991, Census, Marion Hammat editor, AGPS, Canberra, 1995-1998, Commonwealth of Australia copyright reproduced by permission*

## QUESTION 16. (Continued)

**Marks**

- (a) Identify TWO important differences in the structure of the two populations, A and B. **1**

- (i) .....  
 .....  
 (ii) .....  
 .....

- (b) How will the structure of Population A impact on the provision of two social services? **2**

.....  
 .....  
 .....  
 .....  
 .....

- (c) How will the structure of Population B impact on the provision of two social services? **2**

.....  
 .....  
 .....  
 .....  
 .....

**Please turn over**

17. Below is a flowchart which shows some stages of fieldwork investigation. Show how you would investigate a contemporary geographic issue using fieldwork, by answering the questions at each stage in the flowchart.

## STAGE 1

Identify a contemporary geographic issue that you could investigate using fieldwork.

Issue: .....  
 .....

1



## STAGE 2

Identify ONE important feature about which you would need to collect information to investigate the issue identified in Stage 1.

Feature: .....

State why this feature is important.

.....  
 .....  
 .....  
 .....  
 .....

2



## STAGE 3

State a method for collecting primary data to investigate the issue identified in Stage 1.

Method: .....

Identify a difficulty in collecting primary data and state how it can be overcome.

.....  
 .....  
 .....  
 .....  
 .....

2

**1998**  
**HIGHER SCHOOL CERTIFICATE EXAMINATION**  
**GEOGRAPHY**  
**2/3 UNIT (COMMON)—SECTION II**

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**SECTION II—OPTIONS**

**Marks**

(75 Marks)

Attempt **THREE** questions, each from a different Option.

Each question is worth 25 marks.

Allow about 45 minutes for each question.

Answer each question in a **SEPARATE** Writing Booklet.

Where appropriate, candidates should illustrate answers with maps, diagrams, and/or reference to fieldwork.

**OPTION 1. LARGE CITIES**

**EITHER**

- 18.** Using the stimulus material on page 1 of the Broadsheet, and your knowledge of large cities, write an extended response on:

*Changing patterns of urbanisation.*

In your response:

- |  |           |
|--|-----------|
| (a) describe the changing patterns of urbanisation between 1950 and 2000;                      | <b>3</b>  |
| (b) identify urban processes that influence the changing patterns of urbanisation;             | <b>10</b> |
| (c) account for differences in urban processes in less developed and more developed countries. | <b>12</b> |

**OR**

- 19.** Name and locate **ONE** large city of at least two million people you have studied. Analyse relationships between urban processes, environmental quality and social well-being in this city. **25**

**OPTION 2. FRAGILE ECOSYSTEMS****Marks**

EITHER

- 20.** Refer to the stimulus material on pages 2 and 3 of the Broadsheet.

These areas contain fragile ecosystems.

Using the stimulus material on pages 2 and 3 of the Broadsheet and your knowledge of fragile ecosystems, write an extended response on:

*The need for responsible management of fragile ecosystems.*

In your response:

- |     |   |           |
|-----|---|-----------|
| (a) | identify TWO examples of human-induced ecosystem change; one from the Salt Lake City, Utah map and one from the Grand Teton area map; | <b>2</b>  |
| (b) | for one of the examples identified in part (a), explain why its ecosystem is vulnerable to human-induced change.                      | <b>8</b>  |
| (c) | using material from the Broadsheet and sample studies, discuss the reasons for the protection of ecosystems.                          | <b>15</b> |

OR

- |            |  |           |
|------------|--|-----------|
| <b>21.</b> | With reference to AT LEAST TWO sample studies, analyse the nature and extent of stress on ecosystems caused by human-induced ecosystem change. | <b>25</b> |
|------------|--|-----------|

**OPTION 3. NATURAL RESOURCES****Marks****EITHER**

- 22.** Using the stimulus material on pages 2 and 3 of the Broadsheet and your knowledge of natural resources, write an extended response on:

*The nature and management of natural resources.*

In your response:

- |     |   |           |
|-----|---|-----------|
| (a) | with reference to examples from pages 2 and 3 of the Broadsheet, explain the renewable and exhaustible nature of resource use;                  | <b>10</b> |
| (b) | using material from the Broadsheet and sample studies, demonstrate how different strategies are needed for the management of natural resources. | <b>15</b> |

**OR**

- |            |   |           |
|------------|---|-----------|
| <b>23.</b> | With reference to AT LEAST TWO sample studies, analyse the spatial implications of the production and consumption of natural resources. | <b>25</b> |
|------------|---|-----------|

**Please turn over**

**OPTION 4. PRODUCTIVE ACTIVITY****Marks****EITHER**

- 24.** Refer to page 4 of the Broadsheet.

The material shows examples of globalisation of production, changes in consumption, and decision making and control in various productive activities from the agriculture, manufacturing and services sectors.

Using this stimulus material and your knowledge of a productive activity, write an extended response on:

*The global nature and distribution of a productive activity.*

In your response:

- |   |           |
|---|-----------|
| (a) name a productive activity you have studied and describe its global pattern;  | <b>7</b>  |
| (b) compare the productive activity identified in part (a) with the Broadsheet examples of:   | <b>18</b> |
| <ul style="list-style-type: none"> <li>• global production;</li> <li>• changes in consumption; and</li> <li>• decision making and control.</li> </ul> |           |

**OR**

- |  |           |
|--|-----------|
| <b>25.</b> Name and locate ONE production unit, such as a farm, a factory or a service provider, that you have studied. Analyse the interaction of this production unit with the biophysical and human environments. | <b>25</b> |
|--|-----------|

**End of paper**