BOARD OF STUDIES
NEW SOUTH WALES

HIGHER SCHOOL CERTIFICATE EXAMINATION

1997

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

  Mark your answers 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)

The questions in Section I refer to the Broadsheet.

PART A
(15 Marks)

Allow about 25 minutes for this Part.

Attempt ALL questions.

Each question is worth 1 mark.

Mark your answers in pencil on the Answer Sheet provided.

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

Use the Cost of Waste Disposal graph on page 1 of the Broadsheet to answer Question 1.

1. The country that has $100 per tonne cost for waste disposal is

(A) Britain.

(B) France.

(C) Ireland.

(D) Norway.

Use the Typical Waste pie charts on page 1 of the Broadsheet to answer Question 2.

2. The waste product that is 2·5 times greater in more developed countries than less developed countries is

(A) glass.

(B) paper.

(C) vegetable.

(D) other.

Use the Pollutants in the Megacities table on page 1 of the Broadsheet to answer Question 3.

3. The rank order of megacities from highest to lowest, based on the degree of pollution, is

(A) Mexico City, Cairo, New York, Tokyo.

(B) Mexico City, Sao Paulo, New York, Tokyo.

(C) Mexico City, Cairo, Tokyo, New York.

(D) Mexico City, Sao Paulo, Tokyo, New York.

Use the What's Choking Us flowchart on page 1 of the Broadsheet to answer Question 4.

4. The information shown in the flowchart represents

(A) primary sources.

(B) qualitative data.

(C) quantitative data.

(D) statistical information.

Use the topographic map of Nambour (Queensland) on page 2 of the Broadsheet to answer Questions 5 to 8.

5. The density of buildings per square kilometre found in AR 9961 is

(A) 5

(B) 10

(C) 11

(D) 20

6. The direction of flow of the Maroochy River in AR 9461 is

(A) NE

(B) NW

(C) SE

(D) SW

7. The approximate latitude and longitude of the Big Cow tourist facility at GR 959598 is

(A) 152°58'W   26°35'S

(B)   26°35'N   152°58'E

(C) 152°58'E   26°35'S

(D)   26°35'S   152°58'E

8. The bearing of the spot height 166 at GR 945593 from spot height 211 at GR 935601 is

(A) 35°

(B) 55°

(C) 125°

(D) 305°

Use the topographic map of Nambour (Queensland) and the Location Map of Yandina on page 2 of the Broadsheet to answer Question 9.

9. The scale of the location map of Yandina approximates

  (A) 1 : 100 000
  (B) 1 : 250 000
  (C) 1 : 350 000
  (D) 1 : 500 000

Use the topographic map of Noumea (New Caledonia) on page 3 of the Broadsheet to answer Questions 10 to 12.

10. The length of the north–south runway at the Aerodrome de Magenta found in the north-east quadrant of the map is

  (A) 1·1 km
  (B) 2·2 km
  (C) 11 km
  (D) 22 km

11. The gradient of the sea floor between GR 439351 and GR 447353 is approximately

  (A) 1 : 10
  (B) 1 : 100
  (C) 1 : 500
  (D) 1 : 1000

12. The shape that best represents the cross-section from GR 430380 to GR 436370 is

(A)

GR 430380   GR 436370

(B)

GR 430380   GR 436370

(C)

GR 430380   GR 436370

(D)

GR 430380   GR 436370

Use the Percentage of Population Residing in Urban Areas graph on page 4 of the Broadsheet to answer Question 13.

13. The region experiencing the *least* change in the percentage of population residing in urban areas between 1970 and 1995 is

    (A)   Asia.

    (B)   Europe.

    (C)   Latin America.

    (D)   North America.

Use the Population Growth graph on page 4 of the Broadsheet to answer Question 14.

14. The urban population in more developed countries in the year 2000 is estimated to be

    (A)   1 billion.

    (B)   3 billion.

    (C)   4 billion.

    (D)   6 billion.

Use the Selected Urban Statistics table on page 4 of the Broadsheet to answer Question 15.

15. The city that has a high infant death rate, a high murder rate, and a low percentage of children attending secondary school, is

    (A)   Dhaka.

    (B)   Lagos.

    (C)   New York.

    (D)   Rio de Janeiro.

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PART B
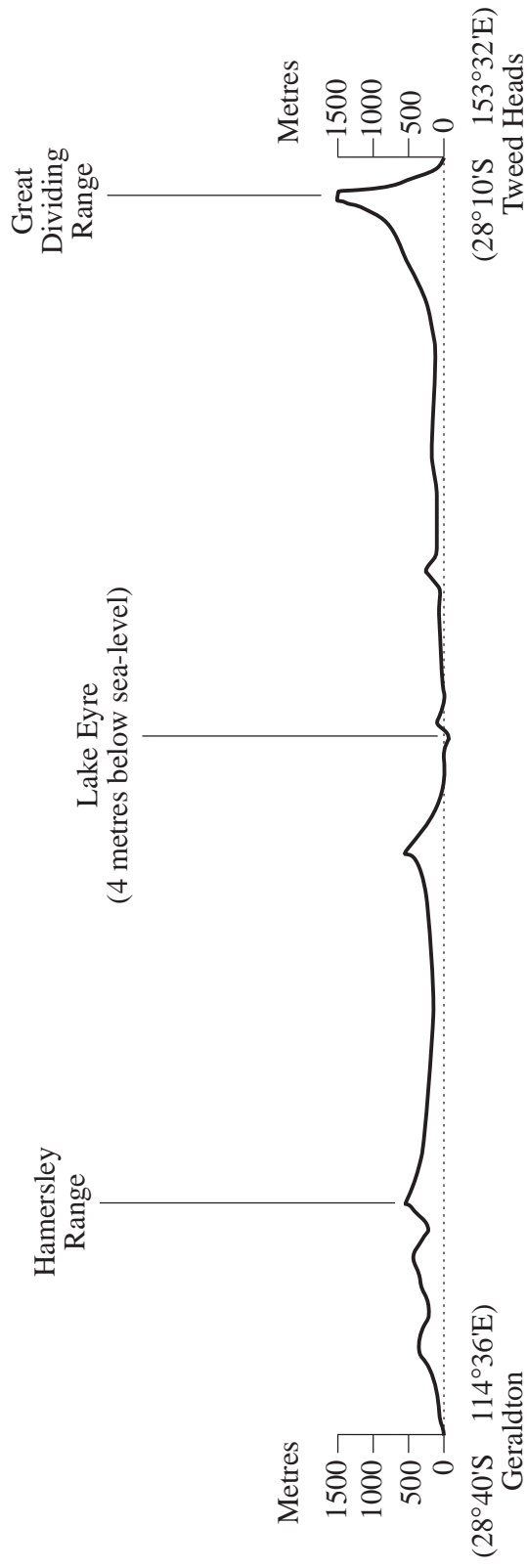
(10 Marks)

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 cross-section.

West to East Cross-Section Across Australia

Horizontal Scale: 1 : 20 000 000

16. (Continued)   **Marks**

Refer to the **West to East Cross-Section Across Australia**.

(a) Calculate the distance between Geraldton and Tweed Heads to the nearest   **1**
     100 km.

     …………………………………………………………………………………

(b) State the vertical scale of the cross-section.   **1**

     …………………………………………………………………………………

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

     …………………………………………………………………………………

(d) Explain why it is necessary to use vertical exaggeration on this   **2**
     cross-section.

     …………………………………………………………………………………

     …………………………………………………………………………………

     …………………………………………………………………………………

Marks

17. (a) Identify a contemporary geographic issue that you could investigate.　　**1**

………………………………………………………………………………

(b) List TWO things about which you would need to gather information to investigate this issue. Give a reason for each choice.　　**3**

(i) ……………………………………………………………………

Reason ………………………………………………………………

………………………………………………………………………

………………………………………………………………………

(ii) ……………………………………………………………………

Reason ………………………………………………………………

………………………………………………………………………

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(c) Identify a method to collect data for each choice.　　**1**

(i) ……………………………………………………………………

(ii) ……………………………………………………………………

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SECTION II—OPTIONS

(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 may illustrate answers with maps, diagrams, and/or reference to fieldwork.

OPTION 1. NATURAL RESOURCES

Marks

EITHER

18. Using the photographs on page 1 of the Broadsheet, and your knowledge of natural resources, write an extended response on:

Issues Related to the Use of Natural Resources.

In your response:

(a)   with reference to *each* photograph, identify ONE potential political issue and ONE potential social issue that could arise;   **4**

(b)   discuss the social issues related to the use of natural resources at different scales and time;   **14**

(c)   outline a change in resource management arising from changes in social and political attitudes.   **7**

OR

19. With reference to sample studies, discuss management strategies, including those practised by indigenous peoples, used to conserve and utilise natural resources, at a variety of scales.   **25**

OPTION 2. PRODUCTIVE ACTIVITY   **Marks**

EITHER

20. Use the table headed **GINGER**, shown on page 2 of the Broadsheet, and your knowledge of ONE production unit that you have studied, to write an extended response on:

A Production Unit.

In your response:

(a) name and locate the production unit you have studied;   **2**

(b) compare and contrast the linkages, at a variety of scales, of the production unit you have studied, with the linkages associated with a similar production unit identified from the table;   **10**

(c) discuss how ownership, decision making, and control affect the production unit you have studied.   **13**

OR

21. Identify and discuss issues arising from the interaction of ONE productive activity with the biophysical and human environments.   **25**

OPTION 3. FRAGILE ECOSYSTEMS   **Marks**

EITHER

22. Using the stimulus material on Noumea on page 3 of the Broadsheet and your knowledge of fragile ecosystems, write an extended response on:

Management of Ecosystems.

In your response:

(a) identify, from the map, a fragile ecosystem that is vulnerable to human-induced disturbance, and state the possible causes of this disturbance; **5**

(b) discuss the management strategies that could be adopted to reduce the impact of this human-induced disturbance; **7**

(c) using sample studies, discuss the effectiveness of management strategies to reduce the impact of human-induced disturbance. **13**

OR

23. Analyse the reasons for the protection of ecosystems at a variety of scales. **25**

OPTION 4. LARGE CITIES

<div align="right">**Marks**</div>

EITHER

24. Using the stimulus material on page 4 of the Broadsheet, and your knowledge of large cities, write an extended response on:

Urbanisation.

In your response:

(a) describe the changes over time in the rates and directions of urbanisation in less developed countries;

5

(b) identify the reasons for urbanisation in less developed countries;

8

(c) discuss the impacts of the growth of large cities in less developed countries.

12

OR

25. Identify management issues, and discuss the role of government in addressing these issues, in your major study of a large city of at least 2 million people.

25