

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.

Refer to Source A on page 1 of the Stimulus Booklet to answer Questions 1–3.

1 In which season does Bairnsdale receive the most rainfall?

- (A) Spring
- (B) Summer
- (C) Autumn
- (D) Winter

2 What is the annual temperature range for Bairnsdale?

- (A) 7°C
- (B) 10°C
- (C) 19°C
- (D) 21°C

3 What is the approximate yearly rainfall in Bairnsdale?

- (A) 60 mm
- (B) 360 mm
- (C) 720 mm
- (D) 880 mm

4 What type of image is shown in Source B?

- (A) Satellite
- (B) Ground level
- (C) Vertical aerial
- (D) Oblique aerial

- 5 Which type of map uses shaded or patterned areas to illustrate themes?
- (A) Cadastral
 - (B) Choropleth
 - (C) Isoline
 - (D) Précis

Refer to Source C on pages 2 and 3 of the Stimulus Booklet to answer Questions 6–10.

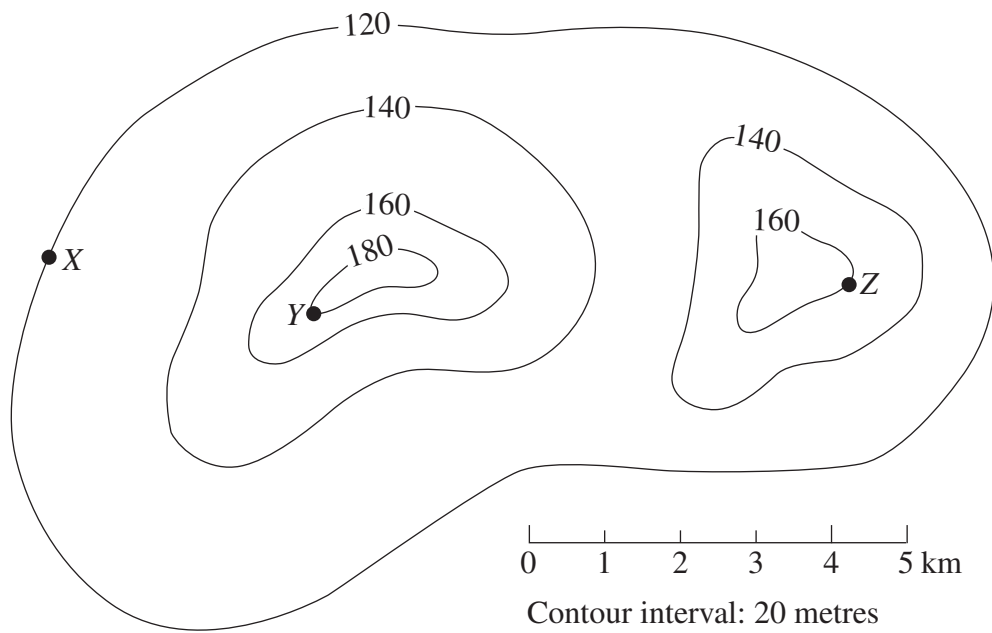
- 6 What is the direction from Bairnsdale Aerodrome (AR 0610) to the airport (AR 0208)?
- (A) ENE
 - (B) NNE
 - (C) SSW
 - (D) WSW
- 7 Which of the following areas has the greatest building density?
- (A) AR 0208
 - (B) AR 0309
 - (C) AR 0409
 - (D) AR 0610
- 8 Which natural environment is a prominent feature in the northwest quadrant of the map?
- (A) Reef
 - (B) Swamp
 - (C) Forest
 - (D) Mangrove
- 9 What is the approximate bearing from Munro train station (AR 0210) to Sale train station (AR 0108)?
- (A) 030°
 - (B) 190°
 - (C) 210°
 - (D) 250°

- 10** If trains travel at an average speed of 80 km/h, approximately how long would it take to travel by train from Stratford Station (AR 0109) to Fernbank Station (AR 0310)?
- (A) 14 minutes
 - (B) 18 minutes
 - (C) 22 minutes
 - (D) 26 minutes
- 11** Which of the following terms includes the concepts of location, spatial organisation, spatial differentiation and distribution?
- (A) Spatial patterns
 - (B) Spatial exclusion
 - (C) Spatial dimension
 - (D) Spatial interdependence

Refer to Source *D* on page 3 of the Stimulus Booklet to answer Questions 12–13.

- 12** Approximately how many people aged 55–59 years were in Charlie Town in 2010?
- (A) 1 900 000
 - (B) 2 600 000
 - (C) 3 500 000
 - (D) 4 100 000
- 13** What was the approximate difference between the female and male populations for the age group 60–64 in Charlie Town in 2010?
- (A) 500 000
 - (B) 700 000
 - (C) 900 000
 - (D) 1 100 000

Refer to the diagram to answer Questions 14–15.



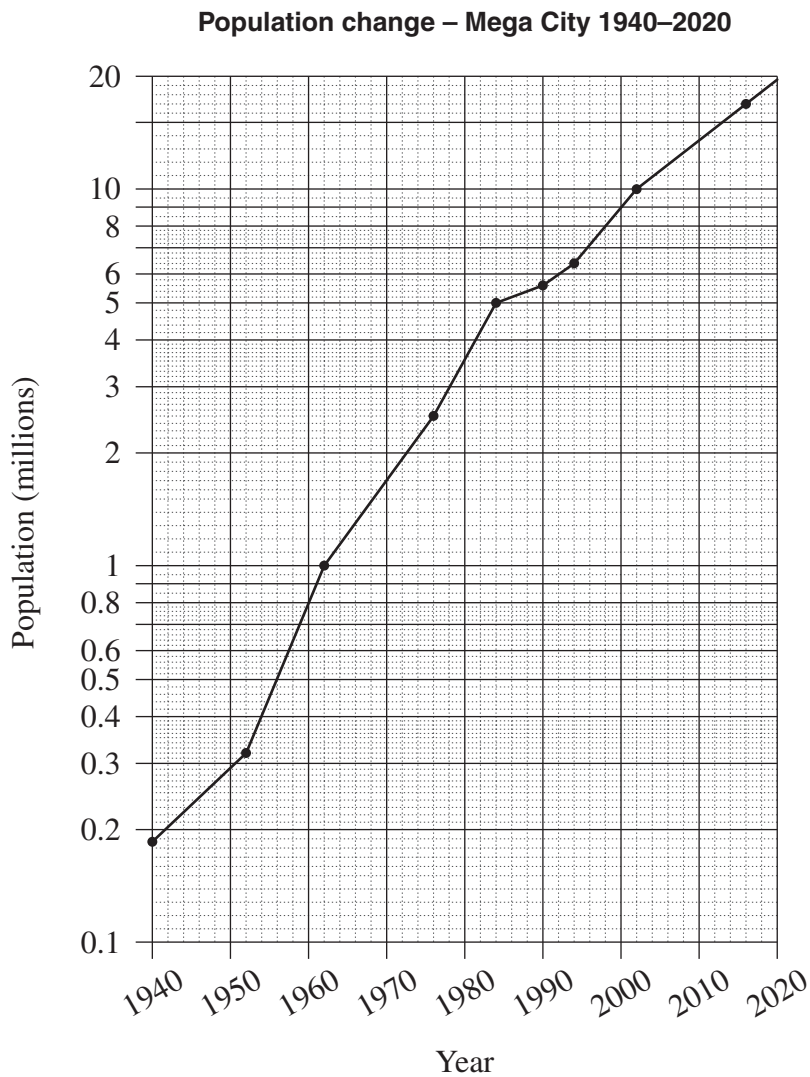
14 What is the local relief between points *X* and *Z*?

- (A) 40 m
- (B) 60 m
- (C) 120 m
- (D) 180 m

15 What is the average gradient between points *X* and *Y*?

- (A) 1:60
- (B) 1:80
- (C) 1:100
- (D) 1:120

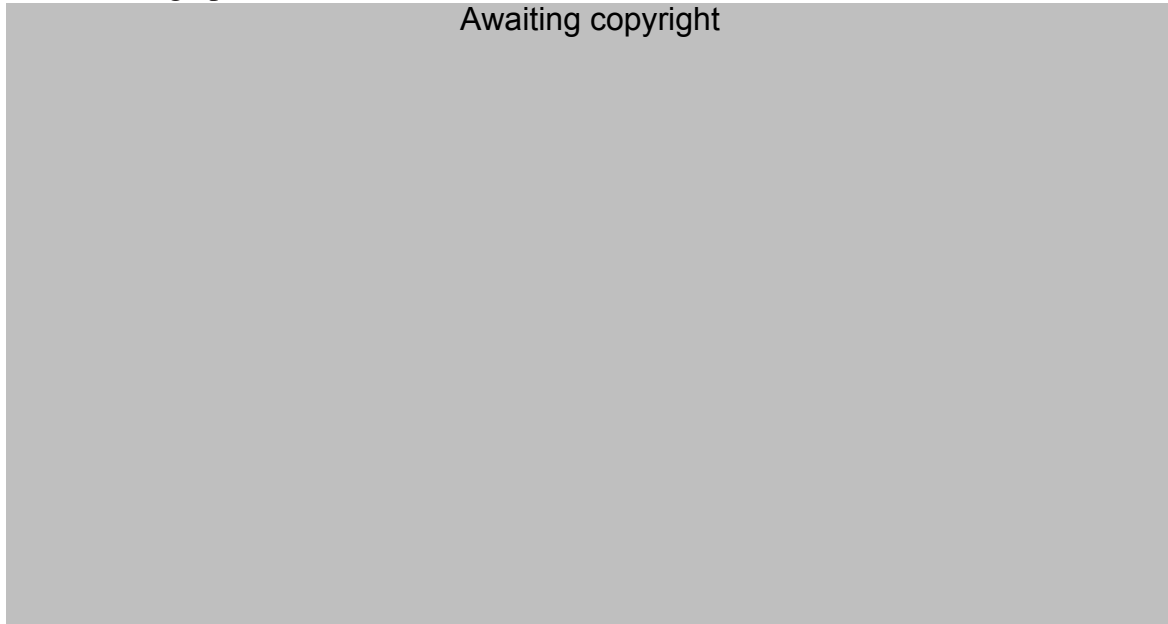
Refer to the graph to answer Questions 16–18.



- 16** What type of graph is this?
- (A) Semi-logarithmic graph
 - (B) Proportional graph
 - (C) Ternary graph
 - (D) Sector graph
- 17** What is the projection for the population of Mega City in 2016?
- (A) 11 million
 - (B) 13 million
 - (C) 15 million
 - (D) 17 million

- 18** During which of the following time periods did Mega City experience the greatest rate of population change?
- (A) 1950–1970
 - (B) 1970–1990
 - (C) 1980–2000
 - (D) 1990–2010

Refer to the graph to answer Questions 19–20.



- 19** What was the percentage increase in global emissions from 1980 to 2010?
- (A) 12%
 - (B) 36%
 - (C) 48%
 - (D) 84%
- 20** Which type of emission showed the greatest relative change from 1990 to 2010?
- (A) Methane
 - (B) Nitrous oxide
 - (C) CO₂ from deforestation, decay and peat
 - (D) CO₂ from fossil fuel use and other sources

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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 (10 marks)

Refer to Source *E* on page 4 of the Stimulus Booklet to answer Question 21.

National Park rangers plan to conduct a fieldwork investigation to study the impact of tourism on Little Rotamah Island (AR 1227).

- (a) What are the possible impacts of tourism on this environment? 2

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- (b) What fieldwork activities could the rangers use to analyse the impact of tourism on this environment? 2

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Question 21 continues on page 10

Question 21 (continued)

- (c) Outline how ONE primary and ONE secondary source could be used by the rangers to provide data and information for their investigation. **4**

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- (d) Recommend a traditional management strategy that may be used to protect this environment. **2**

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End of Question 21



Geography

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Centre Number

Section II (continued)

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Student Number

Question 22 (10 marks)

Answer this question with reference to an economic activity and an economic enterprise that you have studied.

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

- (a) Describe factors that could affect the nature and spatial patterns of this economic activity. 4

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Question 22 continues on page 12

Question 22 (continued)

- (b) Outline the economic impact of this economic activity. **3**

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- (c) Describe the ecological dimensions of this economic enterprise operating at a local scale. **3**

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End of Question 22



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Centre Number

Section II (continued)

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Question 23 (10 marks)

- (a) Contrast the TWO examples of urban dynamics of change in Source *F* on page 4 of the Stimulus Booklet. 4

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Question 23 continues on page 14

Question 23 (continued)

(b) Explain the role of world cities.

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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 (10 marks)

- (a) How is an ecosystem you have studied both vulnerable and resilient? 4

Ecosystem:

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Question 24 continues on page 16

Question 24 (continued)

(b) Why is it important to manage and protect ecosystems?

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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)

Analyse how an economic enterprise operating at a local scale can be affected by global changes.

Question 26 (20 marks)

Account for the changing nature, character and spatial distribution of mega cities.

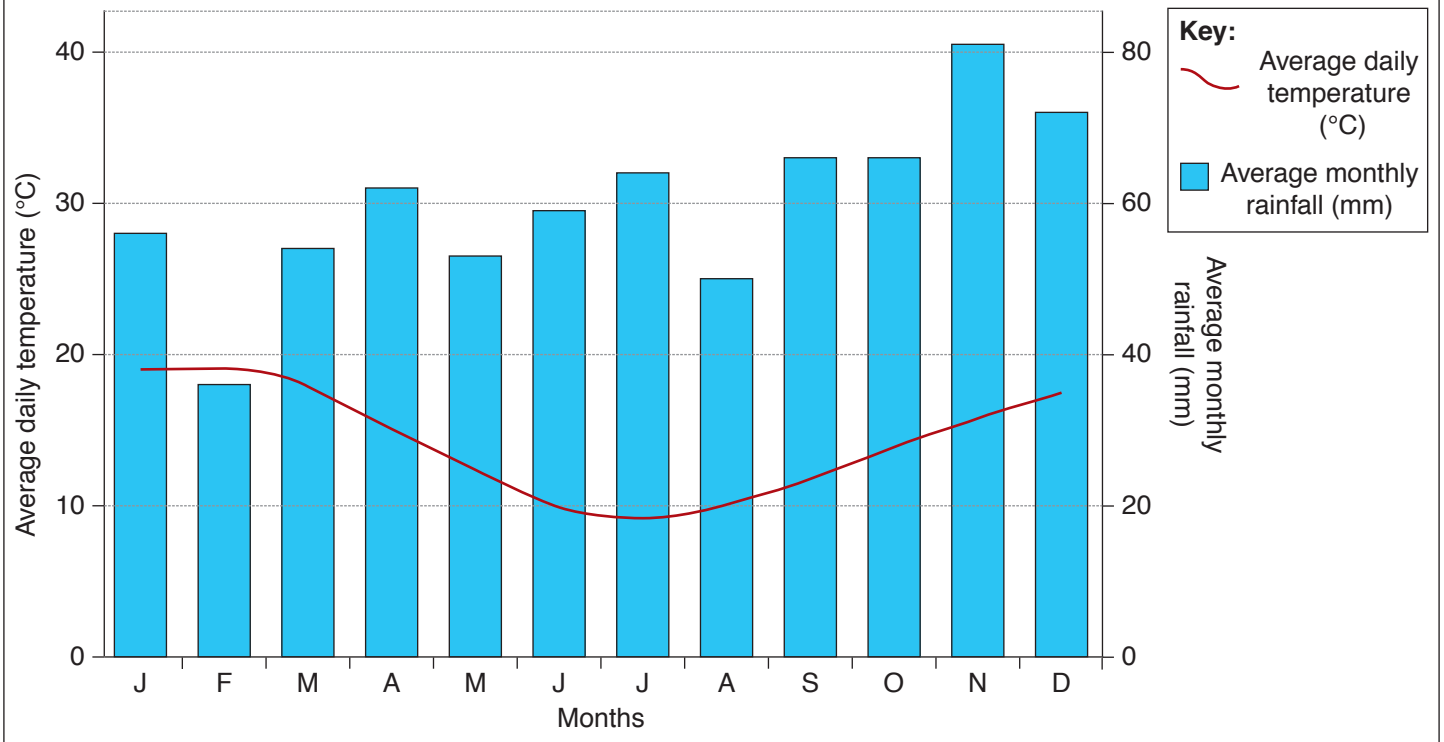
Question 27 (20 marks)

Evaluate traditional and contemporary management strategies of TWO ecosystems at risk in terms of ecological sustainability.

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Source A – Climatic graph – Bairnsdale, Victoria



Acknowledgment: © Climate-Data.org <http://en.climate-data.org/location/991>



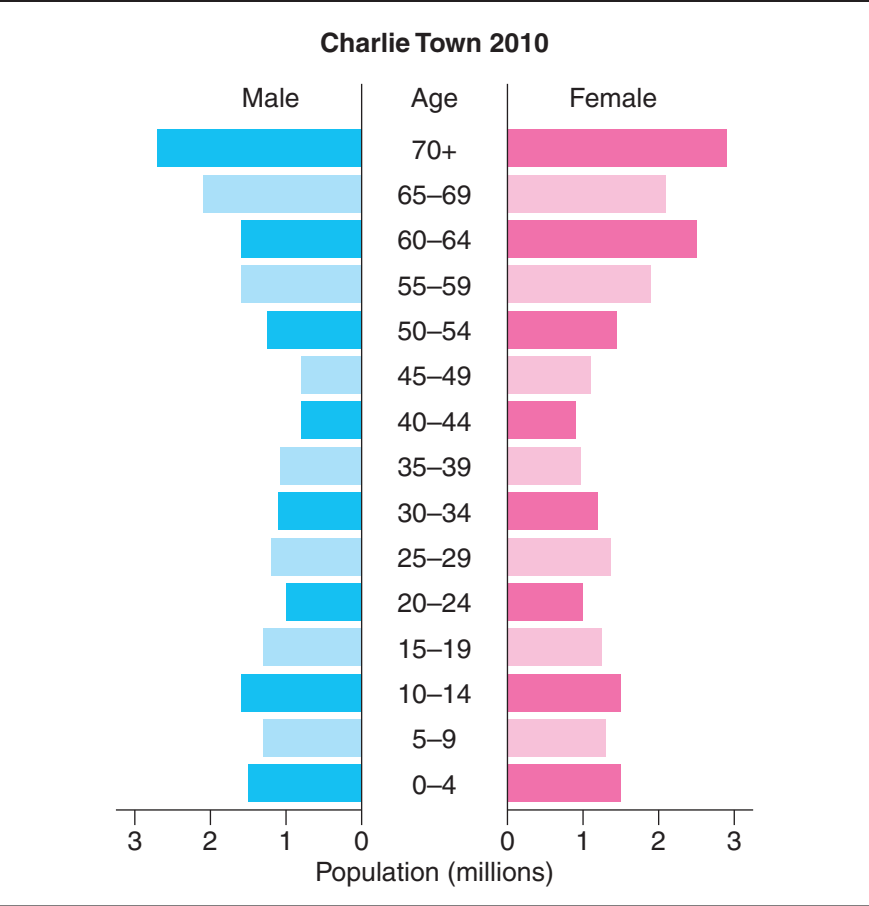
Acknowledgement:
(C) East Gippsland Shire Council



Legend

Principal road; Built-up area; Locality		Single track railway; Bridge; Tunnel		Perennial lake; Non-perennial lake	
Secondary road; Bridge; Causeway		Homestead; Building/s; Ruin		Subject to inundation; Swamp	
Minor road (access & cond. not assured)		Fence; Levee; Open cut mine		Saline coastal flat; Wreck, bare or awash	
Dual carriageway; Distance in km		Mine; Windpump; Yard		Foreshore flat; Lighthouse	
Route marker: National, State		Contour with value; Depression contour		Mangrove; Reef	
Embankment; Cutting		Horizontal control point; Spot elevation		Breakwater; Rock, bare or awash	
Airport; Landing ground; Heliport		Forest, wood or scrubland		Wharf; Jetty or pier	
Multiple track railway; Station or siding		Pine plantation		Reserved area boundary	
		Windbreak		Prohibited area boundary	

Source D – Population Pyramid



Source E – The Lakes National Park



Source F – Urban dynamics of change



Acknowledgement: www.chrisluckhardt.com