

2013 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

1

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 1–2.

In 2011, approximately how many visitors to Tasmania came from Japan?

	(A) 3000
	(B) 4000
	(C) 5000
	(D) 6000
2	From 2011 to 2012, what was the relative change in visitor numbers from the United Kingdom to Tasmania?
	(A) 5% increase

- (B) 25% decrease
- (C) 33% decrease
- (D) 75% increase
- 3 Which of the following identifies TWO urban dynamics of change?
 - (A) Social structure and urban decay
 - Culture of place and consolidation (B)
 - (C) Spatial exclusion and sustainability
 - (D) Decentralisation and urban renewal

Refer to Source *C* on page 1 of the Stimulus Booklet to answer Questions 4–6.

4	Wha	at is the approximate barometric pressure for Adelaide?
	(A)	Greater than 1032 hPa
	(B)	Greater than 1014 hPa and less than 1020 hPa
	(C)	Greater than 1020 hPa and less than 1026 hPa
	(D)	Greater than 1026 hPa and less than 1032 hPa
5	Wha	at is the general wind direction contributing to the rainfall in Queensland?
	(A)	Easterly
	(B)	Westerly
	(C)	Northerly
	(D)	Southerly
6	Wha	at mapping technique has been used to represent the amount of precipitation?
	(A)	Precis
	(B)	Cadastral
	(C)	Choropleth
	(D)	Frequency distribution
Ref	er to S	ource D on pages 2 and 3 of the Stimulus Booklet to answer Questions 7–13.
7	Wha	at is the population density in AR 9939 if each building has three occupants?
	(A)	9 people per km ²
	(B)	18 people per km ²
	(C)	27 people per km ²
	(D)	36 people per km ²
8	Wha	at is the approximate area of Big Punchbowl intermittent lake in AR 9743?
	(A)	0.26 km^2
	(B)	0.35 km^2
	(C)	26 000 ha
	(D)	$350000\mathrm{m}^2$

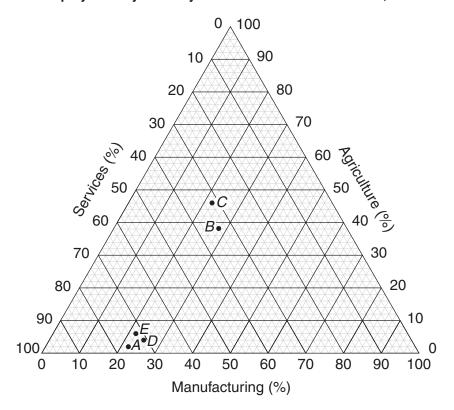
9		t is the approximate bearing of the building located at GR 959418 from Mount Paul height (GR 037429)?
	(A)	75°
	(B)	83°
	(C)	255°
	(D)	263°
10		t is the approximate time taken by a cyclist travelling by road from Wet Marsh ge (AR 8839) to Whelans Bridge (AR 8644) at an average speed of 15 km per hour?
	(A)	11 minutes
	(B)	21 minutes
	(C)	31 minutes
	(D)	41 minutes
11	In w	hat general direction does the Swan River in AR 8942 flow?
	(A)	S
	(B)	SW
	(C)	SSW
	(D)	WSW
12	Wha	t is the aspect of the slope at AR 0532?
	(A)	NW
	(B)	SW
	(C)	NNE
	(D)	SSE
13	Whic	ch of the following features is NOT visible from Mt Parsons spot height at GR 089332?
	(A)	Wineglass Bay AR 0730
	(B)	Fleurieu Point GR 040311
	(C)	Coles Bay built-up area AR 0635
	(D)	Mt Dove summit GR 081326

Refer to Sources D and E on pages 2 and 3 of the Stimulus Booklet to answer Questions 14–15.

14	Wha	t is the feature labelled A?
	(A)	Lemon Bight AR 1129
	(B)	Hazards Beach AR 0529
	(C)	Hazards Lagoon AR 0629
	(D)	Richardsons Beach AR 0734
15	In w	hich general direction was the photographer facing when taking the photograph?
	(A)	East
	(B)	West
	(C)	North
	(D)	South
Refe	er to S	burce F on page 3 of the Stimulus Booklet to answer Questions 16–17.
16	Wha 2010	t was the approximate increase in electricity used by industrial users from 2005 to
	(A)	700 million kWh
	(B)	1100 million kWh
	(C)	1500 million kWh
	(D)	1900 million kWh
17		t was the approximate combined electricity used by residential users and industrial in 2000?
	(A)	1500 million kWh
	(B)	1700 million kWh
	(C)	5800 million kWh
	(D)	6400 million kWh

Refer to the ternary graph to answer Questions 18–19.

Employment by industry sector for selected countries, 2011



- 18 What percentage of the workforce in country A was employed in the service sector?
 - (A) 2%
 - (B) 22%
 - (C) 76%
 - (D) 98%
- What is the difference in employment in the manufacturing sector between country *C* and country *B*?
 - (A) 2%
 - (B) 4%
 - (C) 6%
 - (D) 8%

- 20 Which of the following represents the largest scale?
 - (A) 1:100 000
 - (B) $\frac{1}{50000}$
 - (C) 1 cm represents 25 km
 - (D) 0 2.5 5 7.5 10 12.5 km

BLANK PAGE

2013 HIGHER SCHOOL CERTIFICATE EXAMINATION Geography									
Section II		ı		I		Ce	entre	Nun	nber
40 marks Attempt Questions 21–24 Allow about 1 hour and 10 minutes for this section	n					Stu	dent	Nur	nber
Use the Stimulus Booklet and your knowledge of geo spaces provided. These spaces provide guidance for t		-						-24 ir	the
Question 21 (5 marks)									
Cross-section from	om X	to Y							
900 - 750 - A				8		C			
(a) State the local relief between point A and point		••••	•••••	•••••	•••••		•••••		1
(b) Calculate the average gradient between point A	and	poin	t <i>B</i> .	Shov	w wo	rking	j. 		2
(c) Calculate the vertical exaggeration of the cross	-sect	ion. S	Shov	v wo	orking	g. 	•••••		2

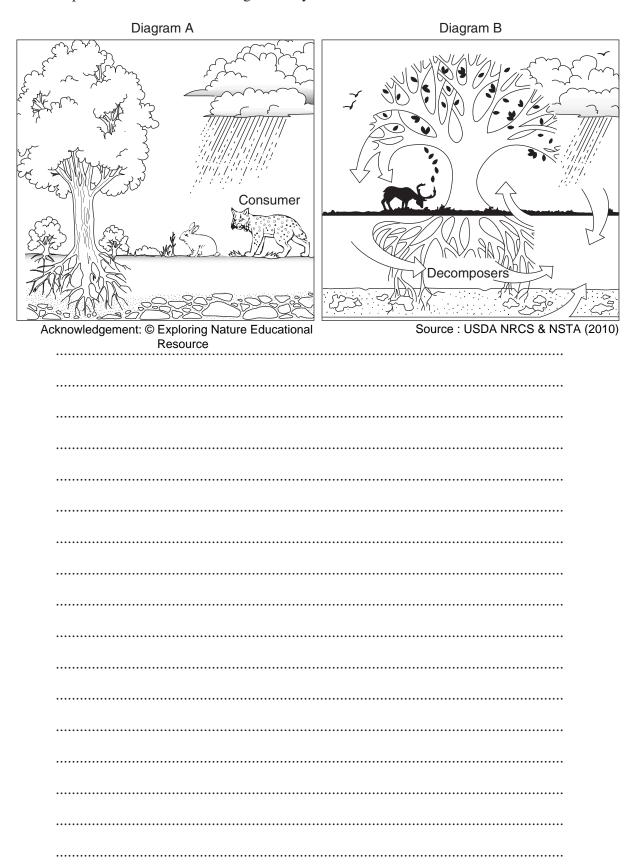
BLANK PAGE

	s higher school certificate examination	ı							
Soci	tion II (continued)						Centr	e Nu	mber
Seci	ion ii (continueu)								
						S	Studen	ıt Nu	mber
Que	estion 22 (12 marks)								
(a)	Using Source <i>B</i> on page 1 of the Stimulus Boomanagement and protection of ecosystems.	oklet, e	expla	in TV	VO rea	asons	for th	e	6
			• • • • • • • • • • • • • • • • • • • •		•••••			••	
			•••••		•••••		•••••		
			•••••	•••••	•••••	••••••	•••••	••	
		•••••	•••••	•••••	•••••	••••••	•••••	· •	
			•••••	•••••	•••••	••••••	•••••	••	
		•••••	•••••	••••••	•••••		•••••	••	
			• • • • • • •	•••••	•••••	••••••	•••••	••	
		•••••	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	••••••	•••••	••	
			•••••	•••••	•••••	•••••	•••••	••	
		•••••	•••••	•••••	•••••	••••••	•••••	••	
			•••••	•••••	•••••	•••••		••	
		•••••	•••••	•••••	•••••	••••••	•••••	••	
			• • • • • • • •	•••••	•••••	•••••	•••••	••	
			•••••	•••••			•••••	••	
		•••••	•••••		• • • • • • • • • • • • • • • • • • • •	••••••		·•	
		•••••	•••••	•••••	•••••	••••••	•••••	••	
					• • • • • • • • •				

Question 22 continues on page 12

2322 - 11 -

(b) With specific reference to both diagrams, explain the biophysical interactions responsible for the functioning of ecosystems.



End of Question 22

	s higher school certificate examination eography									
Sect	tion II (continued)						С	entre	e Nu	mber
							Stı	ıden	t Nu	mber
Que	estion 23 (12 marks)									
(a)	Explain the changing relationship between reg	ional	cent	tres a	and s	mall	towi	18.		4
		•••••	•••••	•••••	•••••	•••••	•••••	•••••	•	
		•••••	•••••	•••••	•••••	••••••	•••••	•••••	•	
		• • • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	•	
		•••••	•••••	•••••	•••••	•••••	•••••	•••••		
		•••••	•••••	•••••	•••••	•••••	•••••	•••••	•	
		•••••	•••••	•••••	•••••	•••••	•••••	•••••	•	
		•••••	•••••	•••••	•••••	•••••	•••••	•••••	•	
		• • • • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	•	
			•••••	•••••	•••••	•••••	•••••	•••••		
		•••••	•••••	•••••	•••••	•••••	•••••	•••••	•	
(b)	With reference to Source <i>G</i> on page 4 of the S rapid growth of megacities in the developing v			Book	let, a	ccou	nt fo	or the)	4
			•••••				•••••	•••••		
		•••••	•••••	•••••	•••••	•••••	•••••	•••••		
		•••••	•••••		•••••		•••••	•••••		
			•••••		•••••		•••••	•••••		
		•••••	•••••	•••••	•••••	•••••	•••••	•••••	•	
		•••••	•••••	•••••	•••••	•••••	•••••	•••••		
		•••••	•••••	•••••	•••••	•••••	•••••	•••••	•	
		•••••	•••••	•••••	•••••	•••••	•••••	•••••	•	
		•••••	•••••	•••••	•••••	•••••	•••••	•••••		

Question 23 continues on page 14

Question 23 (continued)

4	Using Source <i>H</i> on page 4 of the Stimulus Booklet, explain ONE challenge associated with the provision of services in megacities in the developing world.	(c)

End of Question 23

	HIGHER SCHOOL CERTIFICATE EXAMINATION									
Ge	ography							 	Nin	mber
Sect	ion II (continued)								T	
			,	<u>'</u>		_	St	uden	t Nu	mber
	stion 24 (11 marks) wer this question with reference to an economic	acti	vity	in a	gloł	oal co	ontex	at tha	t	
you	have studied.								1	
Eco	onomic activity	•••••		•••••	•••••	••••••	•••••	•••••		
(a)	Outline the spatial patterns of this economic ac					••••				2
(b)	Describe ONE impact of this economic activity		•••••	•••••	•••••	•••••	•••••	•••••		3
(0)		•••••	•••••	•••••		•••••				
		•••••	•••••	•••••	•••••	•••••	•••••			
		•••••	• • • • • •	•••••	•••••	•••••	••••••	•••••		
		•••••	•••••	•••••	•••••	•••••	••••••	•••••		
		•••••	•••••	•••••	•••••	•••••	•••••	•••••	•	
		•••••	•••••	•••••	•••••	•••••	•••••	•••••		
		•••••	•••••	•••••	•••••	•••••	• • • • • • • •	•••••		

Question 24 continues on page 16

Question 24 (continued)

c)	Explain TWO factors contributing to the future directions of this economic activity.	6

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

Question 25 (20 marks)

Assess the impact of humans on the functioning of TWO ecosystems at risk.

Question 26 (20 marks)

Analyse the impact of urban dynamics on the ecological sustainability of a large city in the developed world.

Question 27 (20 marks)

Evaluate factors that have influenced the location of an economic enterprise operating at a local scale.

End of paper

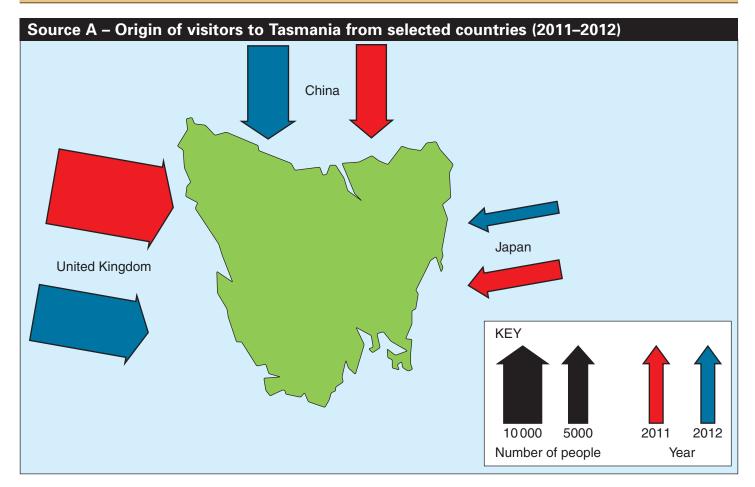
2325 - 17 -

BLANK PAGE

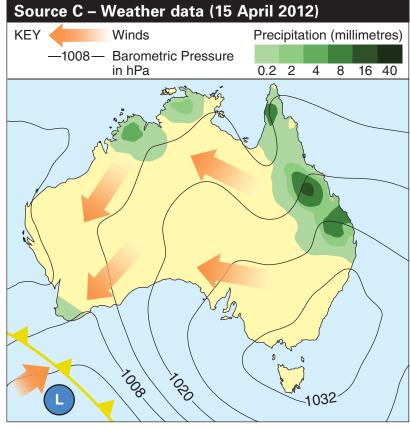


2013 HIGHER SCHOOL CERTIFICATE EXAMINATION

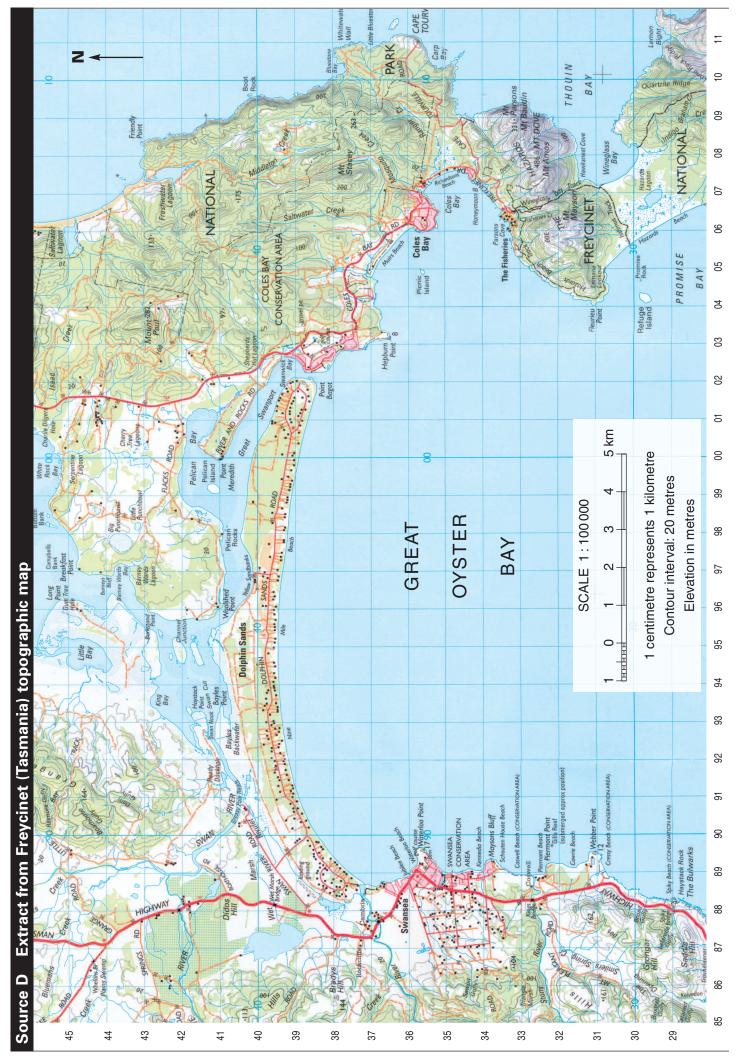
Geography Stimulus Booklet







2326 Page 1



Page 2

Legend					
Built-up area	#	Forest or scrub, dense		Lake, perennial; Lake, intermittent;	
	Sealed Unsealed	Forest or scrub, medium			<i>y</i> ()
Highway		Forest, plantation		tion	
Arterial road		Orchard		Rock, bare or awash; Tidal flat,	
Road of restricted use or access		Building/s; Cemetery; Church	+ =	Tidal roof: Book lodge: Sand	
Other roads; Bridge	 	Trig station; Spot height	•359	1441 1964 1964 941 4	
Walking track (position approximate)		Contour with value;	Ę		
		Depression contour	2002		

