

2010 HIGHER SCHOOL CERTIFICATE EXAMINATION

Geography

General Instructions

- Reading time 5 minutes
- Working time 3 hours
- Write using black or blue pen
- 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, 15 and 17

Total marks - 100

Section I Pages 2–7

20 marks

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

Section II Pages 9–17

40 marks

- Attempt Questions 21–26
- Allow about 1 hour and 10 minutes for this section

Section III Page 19

40 marks

- Attempt TWO questions from Questions 27–29
- 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 to	answer	Questions	1-	-3

1	Wha	t is the approximate distance along the highway between Broome and Derby?
	(A)	90 km
	(B)	120 km
	(C)	160 km
	(D)	220 km

- **2** What is located at approximately 17°15'S 123°06'E?
 - (A) Bidijul
 - (B) North Cliffs
 - (C) Silent Grove
 - (D) Napier Downs
- **3** What direction is Derby from Broome?
 - (A) East
 - (B) South
 - (C) North-East
 - (D) South-West

Refer to the distance grid to answer Questions 4–5.

Distance grid (km) via the Great Northern Highway

Travelling times in hours

Perth	55 1	569 7	774 10	1194 <i>15</i>	1650 21	2245 28
Muchea 514 6			719 <i>9</i>	1139 14	1595 20	2190 27
Mt Magnet			205 3	625 8	1081 <i>13</i>	1676 21
Meekatharra			ekatharra	420 8	876 11	1471 18
				Newman	456 <i>6</i>	1051 <i>13</i>
Port Hedland					615 8	

Broome

- 4 How long should it take to travel from Mt Magnet to Port Hedland?
 - (A) 3 hours
 - (B) 6 hours
 - (C) 13 hours
 - (D) 21 hours
- 5 It took 10 hours to travel from Perth to Meekatharra. What was the average speed?
 - (A) 52.5 km/h
 - (B) 68.3 km/h
 - (C) 77.4 km/h
 - (D) 79.6 km/h

Refer to Source C to answer Questions 6-10.

6	Wha	t is the length of the runway at Broome Airport?
	(A)	1000 m
	(B)	2000 m
	(C)	3000 m
	(D)	4000 m
7	Wha	t is the building density at AR 1718?
	(A)	9 per km ²
	(B)	12 per km ²
	(C)	15 per km ²
	(D)	18 per km ²
8		t is the grid reference for the Gantheaume Point Lighthouse in the south-west rant?
	(A)	GR 129125
	(B)	GR 129128
	(C)	GR 130125
	(D)	GR 130128
9	Whic	ch transect is possible along the 16 Northing?
	(A)	Beach – residential area – scattered vegetation – beach
	(B)	Beach – scattered vegetation – residential area – beach
	(C)	Beach – perennial lake – medium vegetation – mangroves
	(D)	Beach – residential area – medium vegetation – mangroves
10		t is the bearing from the zoological gardens (GR 172172) to the rodeo ground 202186)?
	(A)	26°
	(B)	64°
	(C)	154°
	(D)	244°

_		the synoptic chart below and Source B in the Stimulus Booklet to answer 11–12.
		Awaiting copyright
11	Who	at weather is likely to be experienced in Hobart in the next 24 hours?
11		
	(A)	Clear, sunny and calm
	(B)	Cloudy, windy with rain
	(C)	Calm with continued heavy rain
	(D)	Calm, dry with increasing humidity
12	Wha	at is the approximate air pressure of TC 'Laurence'?
	(A)	
	(11)	1000 hPa
	(B)	1000 hPa 1004 hPa

Refer to Sources C, D, E and F to answer Questions 13–17.

13	Wha	t is the scale of the aerial photograph of Broome in 2007?
	(A)	1:50 000
	(B)	1:100 000
	(C)	1 cm to 1 km
	(D)	1 m : 50 000 cm
14		reference to Sources D and E, what urban dynamic of change has occurred in me between 1981 and 2007?
	(A)	Urban decay
	(B)	Consolidation
	(C)	Suburbanisation
	(D)	Spatial exclusion
15		t is the percentage increase of the residential area in AR 1614 during the ten years 1997 to 2007?
	(A)	0%
	(B)	25%
	(C)	50%
	(D)	100%
16		t is the most likely reason for the increase in size of the sewage works in AR 1712 1997 to 2007?
	(A)	The population has grown.
	(B)	The golf course requires sewage facilities.
	(C)	The scale of the map and aerial photograph are different.
	(D)	The tightening of environmental controls means they take up more space.

	(A)	The east-west runway has been removed.
	(B)	There is more housing west of the airport.
	(C)	Revegetation in the area has created a buffer zone for the airport.
	(D)	The north-south runway has been removed and replaced by housing.
Refe	r to So	ources C and F to answer Questions 18–19.
18	Wha	t direction is the photographer of Source F facing?
	(A)	East
	(B)	North
	(C)	South
	(D)	West
19	Wha	t is the feature labelled as X on Source F?
	(A)	Jetties
	(B)	Cable Beach
	(C)	Cookes Pillar
	(D)	Dampier Creek
20	Wha	t is counterurbanisation?
	(A)	A marked decline in total population
	(B)	The formation of distinctive residential districts
	(C)	A restriction in freedom of movement of urban dwellers
	(D)	The process whereby people move from urban areas to rural areas

What changes have occurred in land use around the airport between 1981 and 2007?

17

Geography											
		. ,						C	entre	Nu	mber
Seci	tion	11									
Atte	_	Questions 21–26 out 1 hour and 10 minutes for this section	n					Stı	ıden	t Nu	mber
		timulus Booklet and your knowledge of geo ovided. These spaces provide guidance for t		-							n the
Que	stion	21 (7 marks)									
Ide	ntify	an economic activity from the sources on p	age 4	4 of 1	the S	timı	ılus l	Book	det.		
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(a)	Des	cribe ONE factor related to the nature of the	is ec	onon	nic a	ctivi	ty.				3
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(b)		cribe TWO environmental impacts of this e	cono	mic	activ	ity.					
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	(11)										_
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2010 HIGHER SCHOOL CERTIFICATE EXAMINATION	
Geography	
Section II (continued)	Centre Number
Section II (continued)	
	Student Number
Question 22 (6 marks)	
	tility llues
Management and Protection	
Need to allow Heritage values Intrinsic v	/alues
For ONE of the factors shown in the diagram, justify its impormanagement and protection of ecosystems at risk.	tance for the 6

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	Centre Number
Section II (continued)	
	Student Number
Question 23 (5 marks)	
Identify ONE world city:	
How is this world city dominant over other urban ce	entres? 5

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Question 24 (6 marks)

Explain the spatial patterns of an economic activity in a global context.	6

	2010 HIGHER SCHOOL CERTIFICATE EXAMINATION Geography							
					Ce	entre	Nu	mber
Secti	ion II (continued)							
					Stu	dent	Nu	mber
Que	estion 25 (8 marks)							
	following article gives details of a conservation and la Kimberley region of Western Australia.	and mar	nagem	ent so	chen	ne in	l	
	Awaiting copyright							
(a)	How does a geographical understanding of ecosyst the Kimberley apply traditional and contemporary n	nanagen	nent si	rateg	ies?			4
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Question 25 (continued)

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End of Question 25

2010 HIGHER SCHOOL CERTIFICATE EXAMINATION Geography								
Centre I								
Section II (continued)		St	udent	Nur	nber			
Question 26 (8 marks)								
(a) Outline the nature and character of mega cities	es in the developing	world.			4			
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Question 26 continues on page 18

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Question 26 (continued)

	Describe ONE challenge of living in a mega city. Include examples in your answer.
•	

End of Question 26

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Section III

40 marks Attempt TWO questions from Questions 27–29 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 27 (20 marks)

To what extent have global changes affected an economic enterprise you have studied?

Question 28 (20 marks)

'An ecosystem at risk is both vulnerable and resilient to natural stress and human induced modifications.'

Discuss this statement.

Question 29 (20 marks)

Analyse ONE of the urban dynamics of change operating in a country town or a suburb.

End of paper

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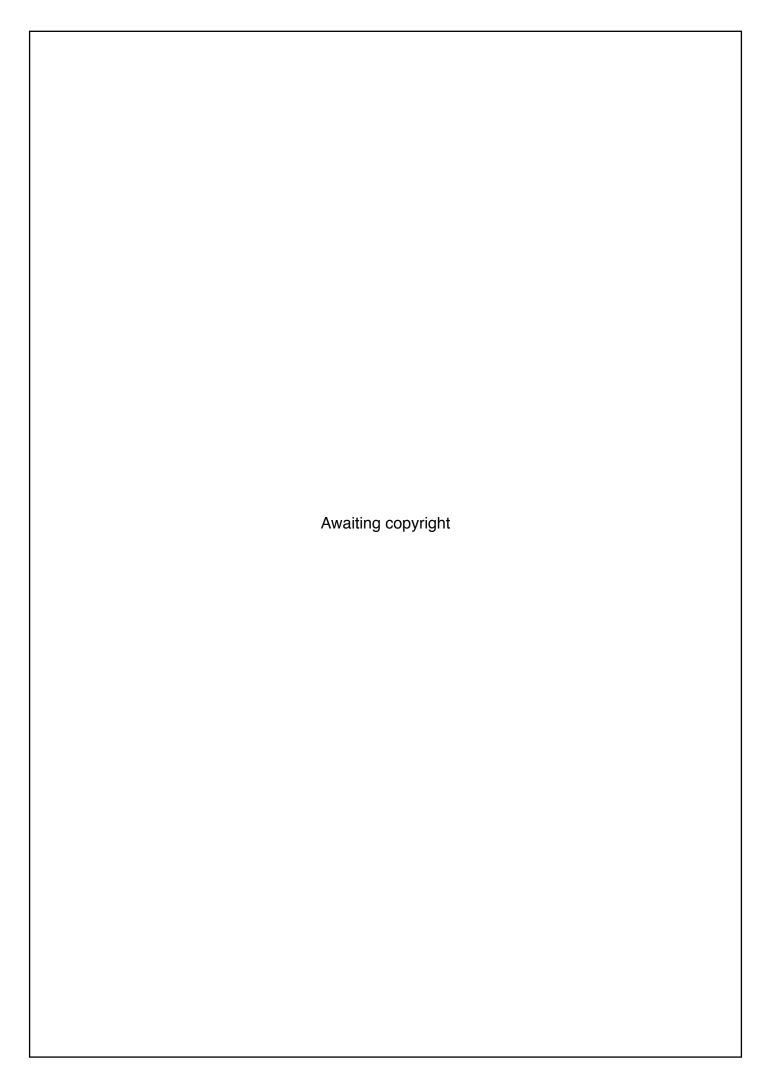


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Geography Stimulus Booklet

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