

2002 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 and 15

Total marks - 100

Section I Pages 2–6

15 marks

- Attempt Questions 1–15
- Allow about 25 minutes for this section

Section II Pages 9–15

25 marks

- Attempt Questions 16–19
- Allow about 45 minutes for this section

Section III Page 17

60 marks

- Attempt Questions 20–22
- Allow about 1 hour and 50 minutes for this section

Section I

15 marks Attempt Questions 1–15 Allow about 25 minutes for this section Refer to the Stimulus Booklet

Use the multiple-choice answer sheet.

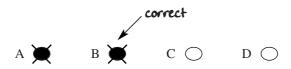
Select the alternative A, B, C or D that best answers the question. Fill in the response oval completely.

Sample: $2 + 4 = (A) \ 2 (B) \ 6 (C) \ 8 (D) \ 9$ $A \bigcirc B \bigcirc C \bigcirc D \bigcirc$

If you think you have made a mistake, put a cross through the incorrect answer and fill in the new answer.

 $A \bullet B \bigcirc C \bigcirc D \bigcirc$

If you change your mind and have crossed out what you consider to be the correct answer, then indicate the correct answer by writing the word **correct** and drawing an arrow as follows.



Refer to Source A to answer Questions 1 and 2.

1		000, what percentage of Sao Paulo's population were females between the ages of ad 39?
	(A)	3%
	(B)	4%
	(C)	7%
	(D)	8%
2	In 20	000, approximately how many people living in Sao Paulo were in the 5–9 age group?
	(A)	979 000
	(B)	1 780 000
	(C)	1 958 000
	(D)	2 136 000
Refe	r to So	ource B to answer Questions 3 and 4.
3		ch of the following geographical concepts are illustrated by the population changes rded in the table?
	(A)	Social structure and ethnicity
	(B)	Urbanisation and urban growth
	(C)	Commercial and industrial development
	(D)	Future trends and ecological sustainability
4	Wha	t is the percentage increase in total population in Brazil between 1990 and 2000?
	(A)	5%
	(B)	6%
	(C)	9%
	(D)	10%

5	Refe	r to Source C.
	Wha	t type of housing is shown in Photograph 1?
	(A)	Squatter settlement
	(B)	Government housing
	(C)	High rise housing
	(D)	Low density settlement
Refe	r to S	ource D to answer Questions 6 and 7.
6	Wha	t is the general direction of flow for the river located in AR 3291?
	(A)	North-east
	(B)	South-west
	(C)	South-east
	(D)	North-west
7		t is the distance by road between Wapet Camp (AR 3896) and Town Point 4000)?
	(A)	4.5 km
	(B)	5.5 km
	(C)	7.5 km
	(D)	8.5 km
8	Refe	er to Sources D and F.
	Whi	ch direction was the photographer facing when Photograph 1 in Source F was taken?
	(A)	North
	(B)	South
	(C)	North-west
	(D)	North-east

9 Refer to Sources F and G.

Which of the following concepts are relevant to both Sources F and G?

- (A) The biophysical interactions of ecosystems at risk and their functioning.
- (B) Human modification of ecosystems at risk and the vulnerability of ecosystems.
- (C) The biophysical interactions of ecosystems at risk and their human modifications.
- (D) Human modification of ecosystems at risk and the use of ecosystem management.

10 Refer to Source H.

Which of the following best describes the precipitation pattern on Barrow Island?

- (A) Evenly distributed
- (B) Unevenly distributed
- (C) Summer maximum
- (D) Winter maximum

11 Refer to Sources D, F and H.

Which of the following best explains the ecosystem evident in Photograph 4, Source F?

- (A) Low precipitation and low elevation
- (B) High precipitation and high elevation
- (C) Low precipitation and high elevation
- (D) High precipitation and low elevation

12 Refer to Source I.

How much oil was produced by the African region in 2000?

- (A) 41 billion barrels
- (B) 76 billion barrels
- (C) 98 billion barrels
- (D) 273 billion barrels

- 13 Which of the following are urban dynamics of change?
 - (A) Consolidation, culture of place and exurbanisation
 - (B) Suburbanisation, consolidation and spatial exclusion
 - (C) Exurbanisation, urban decay and industrial development
 - (D) Ecological sustainability, urban decay and suburbanisation

Refer to Source J to answer Questions 14 and 15.

- 14 Which world city has the greatest number of TNC headquarters?
 - (A) Tokyo
 - (B) London
 - (C) Sydney
 - (D) New York
- 15 Which feature does Source J best illustrate about the global economic activities shown?
 - (A) Their spatial pattern
 - (B) Their future trends
 - (C) Their even global distribution
 - (D) Their responses to changes in technology

2002 HIGHER SCHOOL CERTIFICATE EXAMINATION									
Geography						C	entre	e Nu	mber
Section II									
25 marks Attempt Questions 16–19 Allow about 45 minutes for this section						Stı	uden	t Nu	mber
Use the Stimulus Booklet and your knowledge of ge spaces provided.	ograpl	hy to	o ans	swer	Ques	stions	s 16-	-19 i	n the
								3.4	
Question 16 (6 marks)								M	arks
Refer to Source C.									
Using evidence from the photographs, identify ONE in the developing world and describe TWO response		_		_		nega	citie	S	6
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_	2 HIGHER SCHOOL CERTIFICATE EXAMINATION	ON I									
Ge	eography	Centre Number									
Sect	tion II (continued)									mber	
							Stı	ıden	t Nu:	mber	
									М	arks	
Que	estion 17 (7 marks)								1,2		
(a)	Using Sources A and B, calculate the percent Sao Paulo in the year 2000.	age of	Braz	zil's	рорі	ılatio	n livi	ng ir	1	1	
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(b)	Using Source A, identify TWO features of the typical of a mega city in the developing world typical of a mega city in the developing world typical of a mega city in the developing world typical of the typical of typical of the typical of typ		ulatio	on p	yran	nid th	at ma	ake i	t	2	
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(c)	Describe ONE health issue and ONE soci developing world could face in the next deca		ue tł	nat a	a me	ega c	ity iı	n the	e	4	
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	Social issue	•••••		•••••		•••••	•••••	•••••			
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2002	2 HIGHER SCHOOL CERTIFICATE EXAMINATION	N											
Ge	eography												
	3 1 7	Centre				Nui	lumber						
Sect	ion II (continued)												
					1	1	Stı	ıden	t Nu	mber			
									M	arks			
Que	estion 18 (5 marks)												
Refe	er to Sources D, E and F.												
An e	environmental impact report must be written be	efore o	lrillir	ng fo	r oil	in A	R 35	93.					
(a)	From the sources, identify ONE ecosystem result of drilling for oil.	that o	could	be	place	ed at	risk	as a	a	1			
				•••••									
(b)	Outline TWO likely impacts that the drilli identified in part (a).	ng co	uld l	nave	on	the e	ecosy	stem	1	4			
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	2 HIGHER SCHOOL CERTIFICATE EXAMINATION EOGRAPHY						Contro	Nu	mbor	
Sect	tion II (continued)						entre Number udent Number			
Que	estion 19 (7 marks)							M	arks	
(a)	Using Source I, describe the spatial pattern of the in 2000.	e gl	obal	pro	duct	ion (of oi	1	3	
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(b)	Describe TWO factors influencing the future direct activity you have studied.	ction	of	a glo	obal	econ	omio	2	4	
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2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Geography

Section III

60 marks

Attempt Questions 20–22

Allow about 1 hour and 50 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:

- present a sustained, logical and well-structured answer to the question
- communicate geographical information, ideas and issues
- refer to appropriate case studies, illustrative examples and the Stimulus Booklet where appropriate

Question 20 (20 marks)

With reference to at least ONE ecosystem you have studied, explain the biophysical interactions which lead to diverse ecosystems and their functioning.

Question 21 (20 marks)

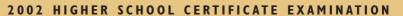
Examine the role of world cities and the operation of these cities within global networks.

Question 22 (20 marks)

Account for the location of an economic enterprise you have studied at a local scale, and describe the ecological dimensions related to this enterprise.

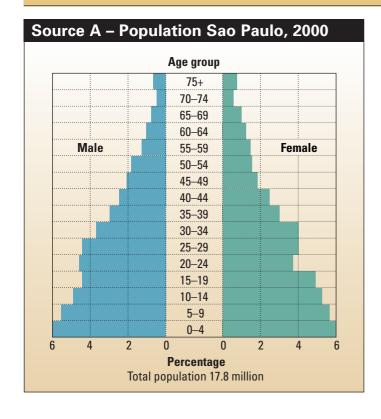
End of paper

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Geography Stimulus Booklet



Brazil	1950–200	0			
Year	Rural population ('000)	% rural population	Urban population ('000)	% urban population	Total population ('000)
1950	33 162	64	18 782	36	51 944
1960	38 767	55	31 303	45	70 070
1970	41 054	44	52 085	56	93 139
1980	38 566	32	70 436	68	119 002
1990	35 669	24	114 699	76	150 368
2000	29 773	18	135 632	82	165 405

Source C – Glimpses of Cities in the Developing World











Key for Source D Unsealed road two or more lanes; Culvert; Causeway Mines; Building; Ruin; Church; Windpump; Yard Fence; Horizontal control point; Spot elevation Contour with value and cliff; Pinnacle Depression contours; Sand. Vegetation: Dense, medium, scattered Watercourse: Area subject to inundation **** Swamp; Swamp definite boundary . Saline coastal flat: Intertidal flat: Rock bare or awash Submerged reef: Submerged rock Indefinite watercourse; Mangrove swamp 2 kilometres Scale 1:100 000 Contour interval 20 metres

Source E

Until West Australian Petroleum Pty Ltd (Wapet) arrived on Barrow Island to explore for oil in 1964, the island had never been permanently occupied by humans.

Its abundant wildlife, particularly marsupials, escaped the effects of introduced species.

The environment retained its natural integrity, an outcome probably unique in Australia.

For these reasons, Barrow Island has been called a living museum and is rated one of the most important wildlife refuges in Australia.

Source F – Images of Barrow Island 2





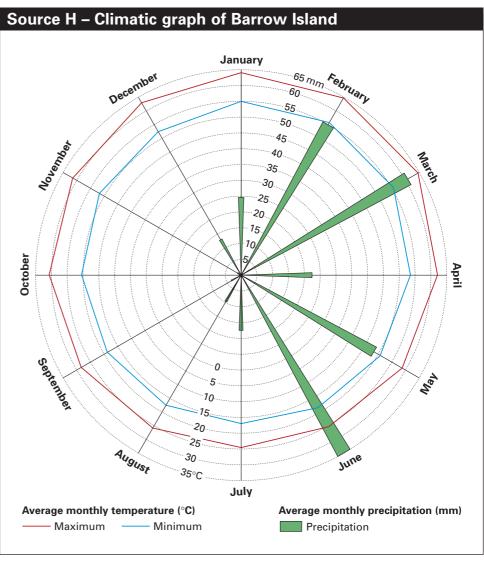




Source G

Management strategies used on Barrow Island:

- Quarantine to prevent introduction of exotic species
- Rehabilitation of disturbed area
- Workforce education
- Reviewing of conservation strategies
- Declaration as A-Class nature reserve



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