

2015 HIGHER SCHOOL CERTIFICATE EXAMINATION

Geography

General Instructions

- Reading time 5 minutes
- Working time 3 hours
- Write using black 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

20 marks

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

Section II Pages 9–15

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.

- 1 Which of the following terms is used to describe where things are and why they are there?
 - (A) Spatial dimension
 - (B) Ecological pattern
 - (C) Environmental impact
 - (D) Sustainable development

Refer to Source A on page 1 of the Stimulus Booklet to answer Questions 2–4.

- What is the barometric pressure at the location labelled **Z**?
 - (A) Greater than 992 hPa and less than 996 hPa
 - (B) Greater than 996 hPa and less than 1000 hPa
 - (C) Greater than 1000 hPa and less than 1004 hPa
 - (D) Greater than 1004 hPa and less than 1008 hPa
- 3 How much rain has fallen in the location labelled **Z** over the six-hour period illustrated?
 - (A) Between 1 mm and 2 mm
 - (B) Between 2 mm and 5 mm
 - (C) Between 5 mm and 10 mm
 - (D) Between 10 mm and 20 mm
- 4 What feature of the synoptic chart indicates that it was generated in summer?
 - (A) Low rainfall over central Australia
 - (B) Lack of cold fronts over northern Australia
 - (C) Tropical cyclone over north-western Australia
 - (D) Low pressure cell over north-eastern Australia

Refer to Source B on page 1 of the Stimulus Booklet to answer Questions 5–6.

- 5 In which occupation was the smallest proportion of people employed in the Western Australian town in 2011?
 - (A) Labourers
 - (B) Professionals
 - (C) Machinery workers
 - (D) Technicians and trades
- **6** What was the approximate number of professionals in the Western Australian town in 2011?
 - (A) 1350
 - (B) 1550
 - (C) 2450
 - (D) 2750

Refer to Source *C* on page 1 of the Stimulus Booklet to answer Question 7.

- What is the approximate percentage change in the total population of Western Australia between 2006 and the projection for 2021?
 - (A) 7%
 - (B) 15%
 - (C) 24%
 - (D) 81%

Refer to Source D on pages 2–3 of the Stimulus Booklet to answer Questions 8–14.

8 What is the approximate latitude and longitude of the James Low Bridge at GR 955614?

	latitude	longitude
(A)	152°57'N	26°34'W
(B)	26°34'N	152°57'W
(C)	152°57'S	26°34'E
(D)	26°34'S	152°57'E

9	What is the grid reference of the spot elevation at Mount Ninderry in the north-ea quadrant of the map?					
	(A)	993631				
	(B)	993629				
	(C)	007631				
	(D)	007629				
10	Whi	ch of the following is the most evident economic activity in AR 9657?				
	(A)	Mining				
	(B)	Grazing				
	(C)	Agriculture				
	(D)	Manufacturing				
11	Wha	at is the bearing of Mount Combe (AR 9459) from Fair Hill (AR 9764)?				
	(A)	29°				
	(B)	151°				
	(C)	209°				
	(D)	231°				
12	Wha	t is the general direction of flow of the South Maroochy River in AR 9361?				
	(A)	North east				
	(B)	North west				
	(C)	South east				
	(D)	South west				
13		roximately how long will it take to walk from the sub station (AR 9456) to the ruins 9060) along Image Flat Road and Kiamba Road at a speed of 5 km/h?				
	(A)	1 hour 5 minutes				
	(B)	1 hour 25 minutes				
	(C)	1 hour 45 minutes				
	(D)	2 hours 5 minutes				

14	Wha	t is the approximate area of Poona Dam (AR 9058)?
	(A)	$0.2~\mathrm{km}^2$
	(B)	$0.4~\mathrm{km}^2$
	(C)	0.6 km^2
	(D)	$0.8~\mathrm{km}^2$
15	Whic	ch of the following sources from the Stimulus Booklet has the largest scale?
	(A)	H
	(B)	F
	(C)	D
	(D)	A
Refe	r to So	arce D and Source E on pages 2–3 of the Stimulus Booklet to answer Questions 16–17.
16	Whic	ch of the following structures is labelled \mathbf{X} in Source E ?
	(A)	Wappa Dam (GR 921611)
	(B)	Poona Dam (GR 911584)
	(C)	James Low Bridge (GR 955614)
	(D)	Water treatment works (GR 923579)
17	In w	hich direction was the camera pointing when the photograph was taken?
	(A)	North
	(B)	East
	(C)	South
	(D)	West

18 An agricultural industry has started using chemicals to manage a pest infestation.

Which of the following is a possible outcome due to sociocultural influences?

- (A) Changes in profit for farmers due to higher yields
- (B) Food chain disruption due to the use of chemicals
- (C) Introduction of an export quota for products treated with chemicals
- (D) Decreased sales of products due to a preference for organic products

Refer to Source G and Source H on page 4 of the Stimulus Booklet to answer Question 19.

- 19 At approximately what time of day was the photo taken in San Francisco?
 - (A) 8 am
 - (B) 12 pm
 - (C) 3 pm
 - (D) 7 pm
- 20 A geographer is visiting a regional centre to investigate the impact of counterurbanisation.

Which of the following techniques would be most useful in gathering primary data for this investigation?

- (A) Survey local residents about recent home renovations
- (B) Annotate photographs of the commercial district of the regional centre
- (C) Interview local shopkeepers about sales performance in the last two years
- (D) Collect clippings from local newspapers about improved community infrastructure

Geography	Centre Number
Section II	Centre Number
40 marks Attempt Questions 21–24 Allow about 1 hour and 10 minutes for this section	Student Number
Use the Stimulus Booklet and your knowledge of ge spaces provided. These spaces provide guidance for	
Question 21 (7 marks)	
Use this cross-section to answer parts (a)–(b).	
200 A 150 150 100 1:100 0	0000
(a) Calculate the average gradient between point Show all working.	ats A and B on the cross-section. 2
(b) Calculate the vertical exaggeration of this cross	oss-section. Show all working. 2

Question 21 continues on page 10

Question	21	(continue	h:
Oucstion		Communa	\sim

Refer to Source F on page 3 of the Stimulus Booklet to answer part (c).

Key:	
Ley:	
~~~	Ocean
70 00	

Landform transect

**End of Question 21** 

_	eography					
			Ce	ntre	Nur	nber
Sect	ion II (continued)					
			Stu	dent	Nun	nber
Que	stion 22 (12 marks)					
	wer this question with reference to an economic activity and enterestudied.	erpriso	e that	you		
Eco	onomic activity:		•••••			
Ес	onomic enterprise:		•••••	••••		
(a)	Outline the impact of ONE linkage associated with the economi	c ente	erprise	). 		2
				•••••		
(b)	Describe TWO ecological dimensions associated with the econo	mic ε	enterp	rise.		4
			•••••	•••••		
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**Question 22 continues on page 12** 

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# Question 22 (continued)

(c)	Explain how TWO global changes in the economic activity affect the future direction of the economic enterprise.	6

**End of Question 22** 

	5 HIGHER SCHOOL CERTIFICATE EXAMINATION  BOGRAPHY				
	9 · · · /	Ce	ntre Nur	nber	
Sect	tion II (continued)	Stud	dent Nur	mber	
	estion 23 (11 marks)				
Ans	swer all parts of the question with reference to a large city in the de	eveloped wo	orld.		
La	urge city:				
(a)	Describe the spatial patterns of advantage and disadvantage in t	his large cit	y.	3	
		•••••	•••••		
			•••••		
			•••••		

Question 23 continues on page 14

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# Question 23 (continued) Contrast TWO urban dynamics of change operating in this large city. ..... Explain how an urban dynamic has affected the culture of place of this large 4 .....

**End of Question 23** 

	Geography  Centre							Nui	mber		
Sect	cion II (continued)										
								Stı	udent	Nu	mber
Que	estion <b>24</b> (10 marks)										
(a)	Explain how biophysical factors influence	e wher	e an	ecos	ystei	m at	risk i	s loc	ated.		4
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<i>(</i> 1.)	H I ONE	1 1,		1 .	c						
(b)	How has ONE ecosystem at risk respond	led to i	natur	al sti	ress	,					6
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# 2015 HIGHER SCHOOL CERTIFICATE EXAMINATION 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.

Your answers 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)

Contrast the nature and character of mega cities in the developing world with world cities.

## Question 26 (20 marks)

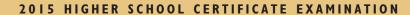
Discuss how management strategies could be used to address human impacts that are placing TWO ecosystems at risk.

## Question 27 (20 marks)

Analyse the environmental and social impacts of ONE economic activity.

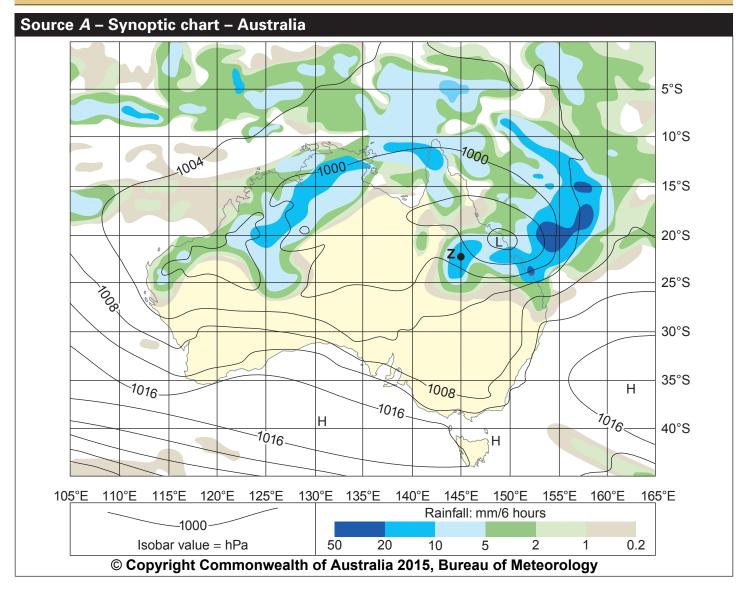
## End of paper

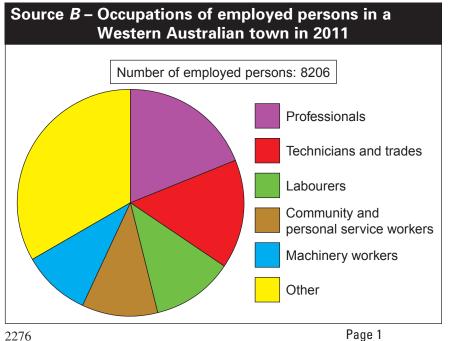
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# Geography Stimulus Booklet

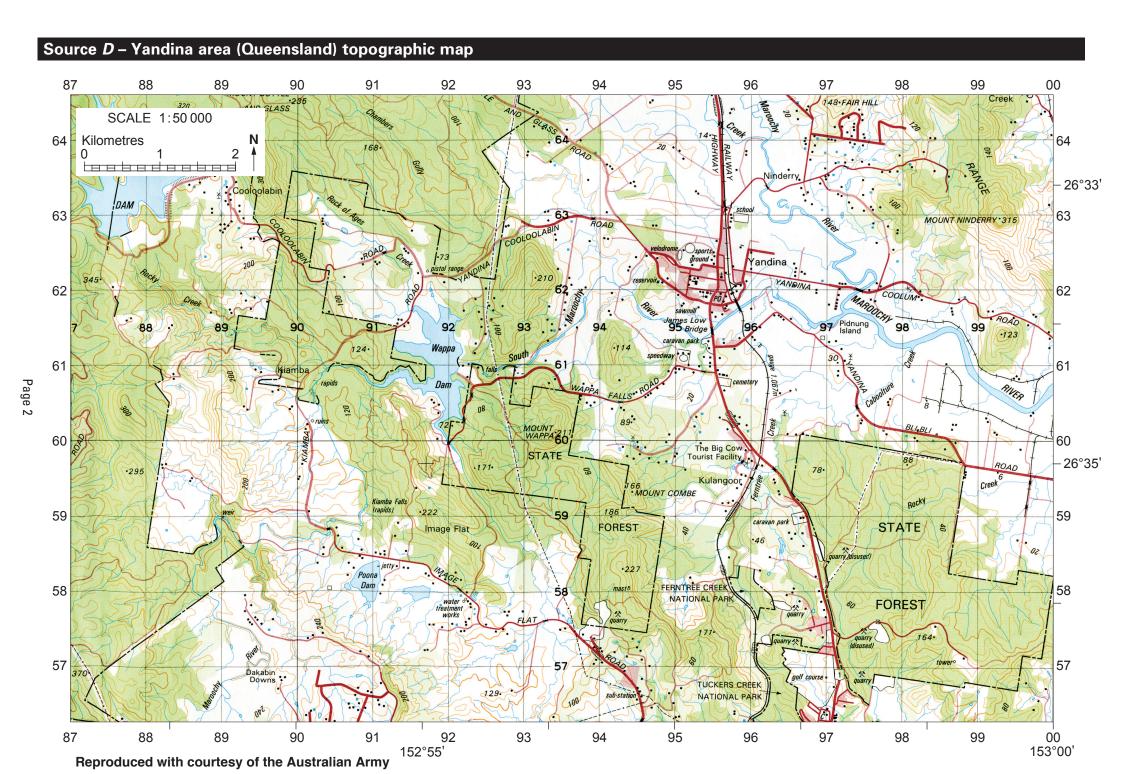


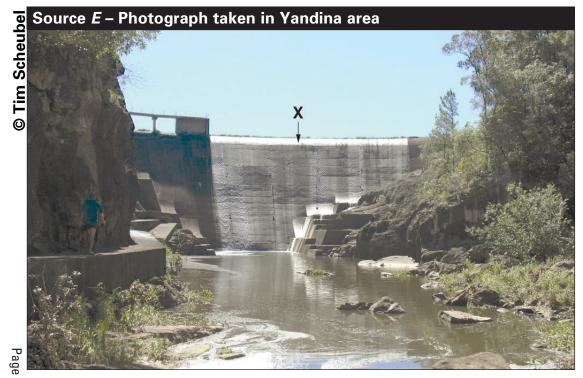


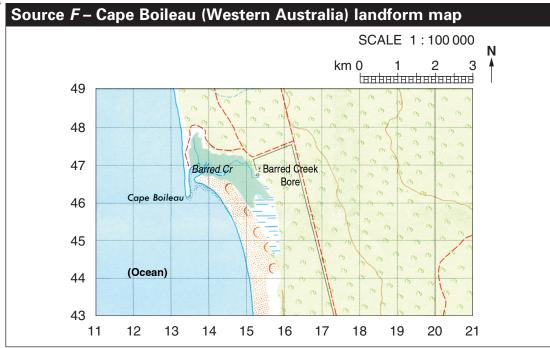
# Source *C* – Total population for Western Australia

Year	Population
2006	2 048 500
2011	2 210 400
2016 (projected)	2 376 400
2021 (projected)	2 534 600

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Legend for Sources <i>D</i> and <i>F</i>
Built up area
Sealed road two or more lanes; National route marker
Sealed road one lane; Cutting; Embankment
Unsealed road two or more lanes; Culvert; Causeway
Unsealed road one lane; Approximate position (AP)
Vehicle track; Road bridge; Gate; Stock grid
Mine; Building; Ruin; Yard
Windmill; Communication tower
Fence; Horizontal control point; Spot elevation
Contour with value and cliff; Depression contours
Sand dunes; Sand ridges
Vegetation; Dense, medium, scattered
Scrub; Dense, medium, scattered
Land subject to inundation; Ricefield
Perennial lake; Watercourse
Intermittent lake; Watercourse
Creek; Falls; Spring
Tank or small dam; Waterhole
Dam wall
Source D Contour interval = 20 m
Source F Contour interval = 20 m

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