

### **NSW Education Standards Authority**

2018 HIGHER SCHOOL CERTIFICATE EXAMINATION

# Geography

### General Instructions

- Reading time 5 minutes
- Working time 3 hours
- Write using black pen
- Calculators approved by NESA may be used
- A Stimulus Booklet is provided with this paper

# Total marks: 100

### Section I – 20 marks (pages 2–9)

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

### Section II – 40 marks (pages 13–20)

- Attempt Questions 21–24
- Allow about 1 hour and 10 minutes for this section

### Section III - 40 marks (page 21)

- 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.

A government plans to relocate its offices away from the city centre and is encouraging higher density residential estates in the suburbs.

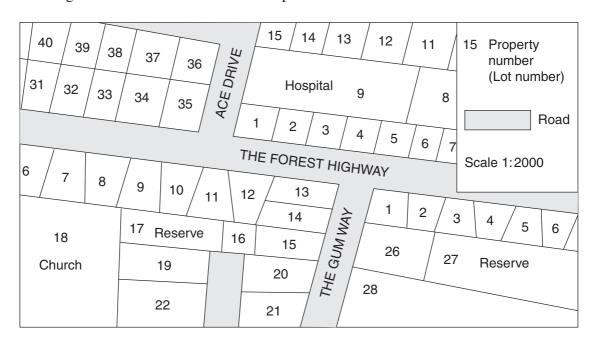
Which combination of urban dynamics does this represent?

- A. Urban village and spatial exclusion
- B. Decentralisation and spatial exclusion
- C. Urban village and urban consolidation
- D. Decentralisation and urban consolidation

Refer to Source *A* on page 1 of the Stimulus Booklet to answer Question 2.

- 2 What is the approximate percentage of people who travel to work in a car?
  - A. 10%
  - B. 30%
  - C. 60%
  - D. 70%

3 The diagram shows an extract from a map of a town.



Which row of the table correctly identifies the type of map shown and a possible application of the map?

	Type of map	One possible application
A.	Precis	Town planning
B.	Precis	Weather forecasting
C.	Cadastral	Town planning
D.	Cadastral	Weather forecasting

Refer to Source *B* on page 1 of the Stimulus Booklet to answer Questions 4–5.

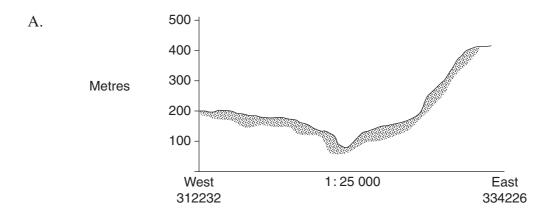
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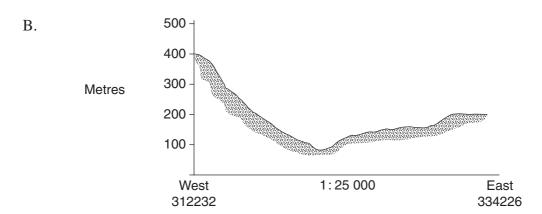
What percentage of the labour force in 1990 was engaged in manufacturing?

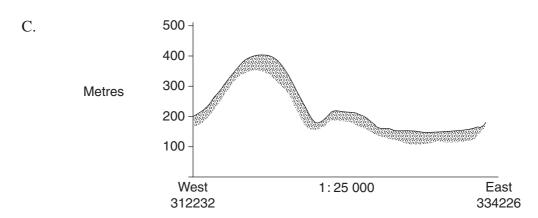
	A.	12%
	B.	19%
	C.	23%
	D.	26%
5		ch sector shows the greatest relative change in its percentage of the labour force from to 2010?
	A.	Mining
	B.	Services
	C.	Agriculture
	D.	Manufacturing
6	What A. B. C.	at is the density of buildings, per square kilometre, in AR 3223?  3  6  12
	D.	24
7		at is the approximate bearing of the Old Station building (GR 331244) from the yards R 3026?
	A.	120°
	B.	135°
	C.	300°
	D.	315°

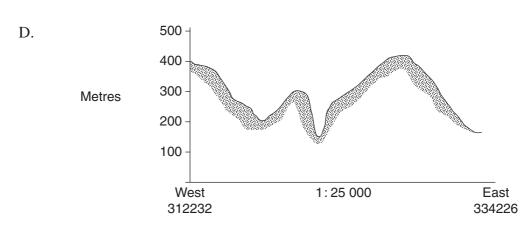
8	Whi	ch area has the steepest slopes?
	A.	AR 3025
	B.	AR 3222
	C.	AR 3226
	D.	AR 3321
9		at is the approximate area of closed forest that is visible in the north-east quadrant of map?
	A.	$0.3~\mathrm{km}^2$
	В.	$0.7~\mathrm{km}^2$
	C.	$1.1~\mathrm{km}^2$
	D.	$1.5 \text{ km}^2$
10	Whi	ch location has a sheltered aspect when winds are coming from the east?
	A.	GR 310254
	B.	GR 316246
	C.	GR 318233
	D.	GR 334239
11		noe travels at 5 km/h. Approximately how many minutes would it take to travel on Hastings River from easting 32 to easting 33?
	A.	5
	B.	15
	C.	25
	D.	35

Which of the following diagrams best represents the cross-section between GR 312232 and GR 334226?



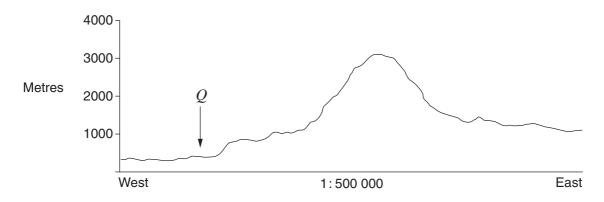






13	wna	It is the average gradient between $X$ (AR 3123) and $Y$ (AR 3326)?
	A.	1:7
	B.	1:37
	C.	1:150
	D.	1:250
	er to S	Source $D$ on pages 2–3 and Source $E$ on page 3 of the Stimulus Booklet to answer 14.
14	Whi	ch of the following is most likely to be the scale of the aerial photograph in Source $E$ ?
	A.	1:12 500
	B.	1:25 000
	C.	1:50 000
	D.	1:100 000
15		ch of the following shows a combination of political factors that influence the nature spatial patterns of global economic activity?
	A.	Tariffs and quotas
	B.	Consumer demand and resource use
	C.	Tax rates and the mobility of labour
	D.	Government spending and changing lifestyles
16	Whi	ch source from the Stimulus Booklet has the largest scale?
	A.	Source C
	В.	Source D
	C.	Source E
	D.	Source F
17		ch of the following lists contains ONLY biogeographical processes operating in ystems?
	A.	Landslides, precipitation, succession
	B.	Landslides, run-off, soil erosion
	C.	Invasion, precipitation, run-off
	D.	Invasion, resilience, succession

Refer to the following diagram to answer Questions 18–19.



Topography	Coastal plain	Gently sloping	Steep	Gently sloping	
Land use	Urban	Dairy cattle grazing	Forestry Unused		Beef cattle grazing
Population	Dense	Scattered	Nil		Sparse

- What type of land use can be found 20 km east of Point Q?
  - A. Forestry
  - B. Unused
  - C. Beef cattle grazing
  - D. Dairy cattle grazing
- 19 What is the vertical exaggeration of the cross-section?
  - A. 5
  - B. 10
  - C. 20
  - D. 50

20 A manufacturing enterprise supplies windows to construction companies. Management is looking to increase both the supply of aluminium frames and the number of assembly line workers to satisfy demand.

Which row of the table correctly identifies both the internal and external linkages of the manufacturing enterprise?

	Internal Linkage	External Linkage
A.	Construction company	Assembly line
B.	Assembly line	Management of workers
C.	Aluminium supplier	Construction company
D.	Management of workers	Aluminium supplier

2018 HIGHER SCHOOL CERTIFICATE EXAMINATION						
			Се	ntre	Nun	nber
Geography						
Section II Answer Booklet			Stuc	lent	Nun	nber

40 marks
Attempt Questions 21–24
Allow about 1 hour and 10 minutes for this section

### Instructions

- Write your Centre Number and Student Number at the top of this page.
- 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.
- · Show all relevant working in questions involving calculations.
- Extra writing space is provided at the back of this booklet.
   If you use this space, clearly indicate which question you are answering.

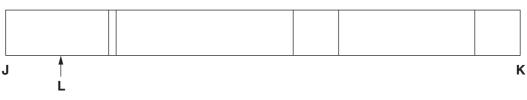
Please turn over

2

### Question 21 (5 marks)

Refer to Source *D* on pages 2–3 of the Stimulus Booklet to answer parts (a)–(b).

(a) Use the key provided to complete the transect along northing 254 between points **J** and **K**.



Cleared land + Open forest Hastings River

(b)	Name the human feature at point <b>L</b> on the transect.	1

Refer to Source F on page 4 of the Stimulus Booklet to answer part (c).

(c)	Of which season is this satellite image typical? Justify your answer.	2

# Question 22 (9 marks)

(a)	Outline why utility value is a reason to protect ecosystems.	2
(b)	Compare the effect of latitude on the nature of TWO different ecosystems at risk.	3
(c)	Using an example, describe how nutrient cycling affects ecosystems.	4

# Question 23 (13 marks)

Outline the spatial distribution of megacities in the developing world. Include examples in your answer.	
How have megacities in the developing world responded to TWO of the challenges of living in megacities?	

**Question 23 continues on page 17** 

# Question 23 (continued)

(c)	Using examples, explain the relationship between world cities and other urban centres in terms of dominance and dependence.

**End of Question 23** 

6

# Question 24 (13 marks)

Answer parts (a) and (b)	with reference to an economic activity you have studied.	
Economic activity:		

(a)	Outline how ONE biophysical factor affects the spatial pattern of this economic activity.
(b)	Discuss how the use of technology has affected the nature of this economic activity.

# Question 24 continues on page 19

# Question 24 (continued)

sustamaomty.		
Economic enterprise:		

Explain how an individual economic enterprise improves its ecological

**End of Question 24** 

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# Geography

### **Section III**

#### 40 marks

Attempt TWO questions from Questions 25–27 Allow about 1 hour and 15 minutes for this section

Answer both questions in the Section III 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)

Explain how locational factors have influenced the character of an economic enterprise operating at a local scale.

### Question 26 (20 marks)

Discuss the effects of urban dynamics on a large city in the developed world.

### **Question 27** (20 marks)

Assess the effectiveness of the strategies that have been used to manage the threats to at least ONE ecosystem at risk.

### End of paper

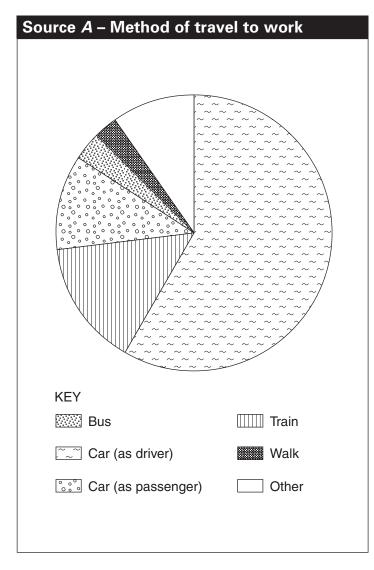
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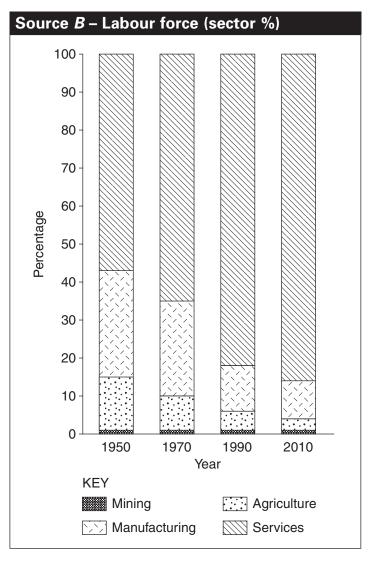


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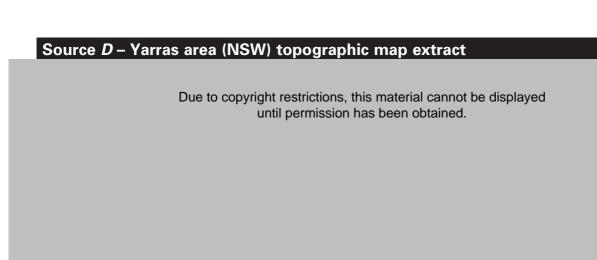
# Geography - Stimulus Booklet

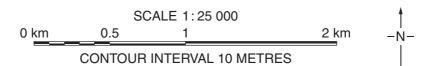


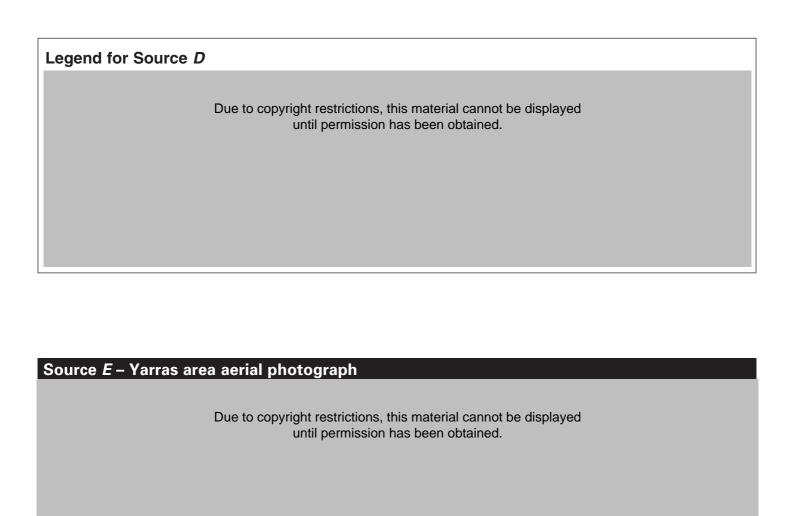




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Source F - Sat	ellite image of Australia
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