



GEOGRAPHY DRAFT SAMPLE EXAMINATION STAGE 2

Section 7 of the *WACE Manual: General Information 2008 Revised Edition* outlines the policy on WACE examinations.

Further information about the WACE Examinations policy can be accessed from the Curriculum Council website at <http://www.curriculum.wa.edu.au/>.

The purpose for providing a sample examination is to provide teachers with an example of how the course will be examined. Further finetuning will be made to this sample in 2008 by the examination panel following consultation with teachers, measurement specialists and advice from the Assessment, Review and Moderation (ARM) panel.



Western Australian Certificate of Education, Draft Sample Examination Question/Answer Booklet

Geography Written Paper Stage 2

Please place your student identification label in this box

Student Number: In figures

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In words

Time allowed for this paper

Reading time before commencing work: Ten minutes
Working time for paper: Three hours

Material required/recommended for this paper

To be provided by the supervisor
This Question/Answer Booklet containing:
Question Booklet for Section Three
Broadsheet
Multiple-Choice Answer Sheet

To be provided by the candidate

Standard items: Pens, pencils, eraser, correction fluid, ruler, highlighter
Special items: Appropriate drawing and measuring instruments (including coloured pencils, dividers or drawing compass and string) and calculators satisfying the conditions set by the Curriculum Council for this subject.

Note: Atlases are not permitted.

Section 3: Parts A and B

Place ticks in the boxes to indicate the questions you attempted.

	Part A			
Q 29	<input type="checkbox"/>	OR	Q 30	<input type="checkbox"/>
	Part B			
Q 31	<input type="checkbox"/>	OR	Q 32	<input type="checkbox"/>

Important note to candidates

No other items may be taken into the examination room. It is **your** responsibility to ensure that you do not have any unauthorised notes or other items of a non-personal nature in the examination room. If you have any unauthorised material with you, hand it to the supervisor **before** reading any further.

Structure of this paper

Section		Suggested working time	Number of questions available	Number of questions to be attempted	Marks available
One	Multiple-choice	30 minutes	20	20	20
Two	Short answer	60 minutes	8	8	30
Three	Sectionalised extended answer	90 minutes	4	2	50
[Total marks]					100

Instructions to candidates

- The rules for the conduct of Curriculum Council WACE examinations are detailed in the *Student Information Handbook*. Sitting this examination implies that you agree to abide by these rules.
- Answer the questions according to the following instructions:

Section One

Answer **all** questions on the separate Multiple-Choice Answer Sheet. Use a B, 2B or HB pencil.

Sections Two and Three

Write your answers in the spaces provided in this Question/Answer Booklet. A blue or black ballpoint or ink pen should be used.

Questions from Section Two should be answered in the spaces provided.

Questions for Section Three should be answered on the lined paper contained in this Question/Answer Booklet.

Wherever possible, use relevant, **fully labelled sketch maps, diagrams** and **actual examples** to illustrate and support your answers.

- Spare answer pages are provided at the end of this booklet. If you need to use them, indicate in the original answer space where the answer is continued (i.e. give the page number).
- Check that you have ticked the boxes on the front cover of this Question/Answer Booklet to identify which optional questions you answered for Section Three—Sectionalised Extended Answer.

Section One: Multiple-choice marks]**[20**

Attempt all questions from this section. Choose the alternative which best answers the question or completes the statement. Record your answers on the separate Multiple-choice Answer Sheet using a 2B, B or HB pencil.

Suggested writing time: 30 minutes

Questions 1 to 9 refer to the Kosciusko Topographic Map and the Thredbo Topographic Map on side 1 of the Broadsheet.

1. The scale of the Kosciusko topographic map is:
 - (a) one centimetre represents five hundred metres
 - (b) one centimetre represents five kilometres
 - (c) one centimetre represents fifty kilometres
 - (d) one centimetre represents fifty thousand kilometres.

2. Which statement best compares the scales of the Kosciusko map and the Thredbo map?
 - (a) The Kosciusko map is more than twice the scale of the Thredbo map
 - (b) The Thredbo map is more than twice the scale of the Kosciusko map
 - (c) The Thredbo map is half the scale of the Kosciusko map
 - (d) The scale of the two maps is the same.

3. What direction is Mount Kosciusko (GR 131646) from Thredbo (GR 168591)?
 - (a) north
 - (b) north-west
 - (c) south
 - (d) South east.

4. The bearing of Mount Kosciusko (GR 131646) from Perisher Valley (GR 263698) is closest to:
 - (a) 70°
 - (b) 110°
 - (c) 200°
 - (d) 250°

5. The general direction of flow of the Snowy River is:
 - (a) north-east
 - (b) north
 - (c) south-west
 - (d) south.

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6. The altitude of Mount Twynam (GR 178715) is closest to:
- (a) 2195 metres
 - (b) 2200 metres
 - (c) 2215 metres
 - (d) 2220 metres.
7. Which of the following chairlifts in the Thredbo region is the longest?
- (a) Cruiser Express
 - (b) Merritt's Chairlift
 - (c) Snowgums Express
 - (d) Crackenback Express.
8. The Snowgums Express moves at an average speed of 5 km/hr. The approximate time it would take a skier to complete a one-way trip to the top is:
- (a) 2 minutes
 - (b) 3 minutes
 - (c) 20 minutes
 - (d) 34 minutes.
9. On July 30th 1997, a section of the Alpine Way collapsed pushing the Carinya Lodge into the Bimbadeen Lodge in Thredbo. Evidence from the Thredbo map suggests that movement would have occurred down-slope in which direction?
- (a) south
 - (b) north
 - (c) east
 - (d) west.
10. According to Source 3 on side 1 of the broadsheet, the landslide which had the greatest impact on human life occurred in:
- (a) the Philippines
 - (b) Switzerland
 - (c) Venezuela
 - (d) Australia.
11. In relation to hazard risk assessment the term 'vulnerability' means:
- (a) the potential loss of life, property and biodiversity
 - (b) the capacity to recover from a hazard event
 - (c) the measure of an inability to cope with a hazard
 - (d) the change in behaviour to minimise future loss.

12. The correct order describing the structure of the earth from its centre is:
- (a) outer core, inner core, inner mantle, asthenosphere, lithosphere
 - (b) inner core, outer core, inner mantle, asthenosphere, lithosphere
 - (c) inner core, outer core, inner mantle, lithosphere, asthenosphere
 - (d) lithosphere, asthenosphere, inner mantle, inner core, outer core.

Questions 13 and 14 refer to Sources 7 and 8 on side 2 of the broadsheet:

13. The landform most likely to be formed at the Nazca and South American plate boundaries is:
- (a) a mid-oceanic ridge
 - (b) an oceanic trench
 - (c) a continental shelf
 - (d) a rift valley.

14. Most tectonic hazards since 1990 are distributed:
- (a) along constructive plate boundaries
 - (b) along divergent plate boundaries
 - (c) along transform boundaries
 - (d) along convergent plate boundaries.

15. Planning to reduce the impact of future hazard events is referred to as:
- (a) loss mitigation
 - (b) loss burden
 - (c) loss recovery
 - (d) risk assessment.

16. Which of the following resources is considered renewable?
- (a) timber
 - (b) recycled copper
 - (c) natural gas (LNG)
 - (d) diamonds.

Question 17 refers to Sources 11 and 12 on side 2 of the broadsheet:

17. Other than Western Australia, which of the following Australian states has the greatest number of non-renewable resource activities?
- (a) New South Wales
 - (b) Victoria
 - (c) Queensland
 - (d) Tasmania.

Questions 18 and 19 refer to Source 13 on side 2 of the broadsheet:

18. What proportion of businesses *in* the mining industry reported that they were using an environment plan in 2000-01?
- (a) 46.5%
 - (b) 52.7%
 - (c) 56.7%
 - (d) 65.2%
19. Which of the following mining industry subdivisions spent the most on current and capital environment protection?
- (a) coal mining
 - (b) oil and gas extraction
 - (c) metal ore mining
 - (d) other mining.
20. Refer to Source 14. When did the greatest increase in the number of threatened fauna species occur?
- (a) 2000–2001
 - (b) 2001–2002
 - (c) 2002–2003
 - (d) 2004–2005

END OF SECTION ONE

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Section Two: Short Answer marks]

[30

Answer all questions in the spaces provided.

Suggested writing time: 60 minutes

Questions 21–23 refer to information contained in the Kosciusko Topographic Map and the Thredbo Topographic map on side 1 of the broadsheet.

QUESTION 21

CALCULATE the average gradient of the Porcupine Walking Track in the Perisher Valley region. (Show all working.)

[2 marks]

QUESTION 22

COMPARE the Thredbo and Perisher Valley settlements in terms of landform features and relief.

[2 marks]

QUESTION 23

DESCRIBE the interrelationship between the relief and transport networks in the region covered by the two maps.

[2 marks]

QUESTION 24

(a) Use Source 1 to **DESCRIBE** the landslide distribution in Australia.

[1 mark]

(b) Use Source 1 and 2 to **DESCRIBE** any ONE relationship which exists between the landslide distribution and Australia's topography.

[2 marks]

QUESTION 25

Use examples from Source 3 to **IDENTIFY ONE** impact of landslides on human life and **ONE** impact of landslides on property.

[2 marks]

QUESTION 26

Study Sources 3–5 and compare this data to similar information you have studied for **ONE** geomorphic hazard and **ONE** atmospheric hazard.

(a) **IDENTIFY THREE** hazards and **RANK** them in order of the greatest impact on the human environment (i.e. in terms of life and property):

[1 mark]

QUESTION 27

EXPLAIN what is meant by the terms exploitation, depletion and conservation of resources. Give ONE example of each.

[3 marks]

QUESTION 28

IDENTIFY ONE renewable resource activity **or** ONE non-renewable resource activity.

[1 mark]

(a) IDENTIFY TWO stakeholders with differing points of view towards the sustainable management of the resource and **BRIEFLY DESCRIBE** their points of view.

[4 marks]

- (b) **EXPLAIN** any TWO factors (environmental, economic, social or political) which have led to the stakeholders' differing points of view.

[4 marks]

END OF SECTION TWO

Check that you have written your student number on the front page of this booklet

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Section Three: Sectionalised Extended Answer marks]**[50**

In this section, there are **FOUR (4)** questions.

Students should attempt **TWO (2)** questions in this section: ONE from Part A: Unit 2A—Geography of natural hazards and impact minimisation **AND** ONE from Part B: Unit 2B—Geography of sustainable resource use.

PART A: UNIT 2A—Geography of natural hazards and impact minimisation**Answer question 29 OR 30****QUESTION 29**

(a) With the aid of well labelled sketch maps and/or diagrams, **COMPARE** the processes and characteristics associated with any **TWO** plate boundary types. [5 marks]

(b) **IDENTIFY ONE** geomorphic hazard and **EXPLAIN** the relationship between the location and distribution pattern of this geomorphic hazard and:
i. tectonic plate boundaries
ii. other related geomorphic hazards.

(Reference should be made to the broadsheet as well as your own sketch maps and/or diagrams.)

[8 marks]

(c) **IDENTIFY ONE** atmospheric hazard and **DISCUSS** the positive and negative impacts of loss mitigation practices on the natural and cultural environment.

(Refer to at least one case study and include sketch maps and/or diagrams where appropriate.)

[12 marks]

OR**QUESTION 30**

(a) **IDENTIFY ONE** atmospheric hazard and with the aid of well labelled sketch maps and/or diagrams, **EXPLAIN** the processes which cause your chosen hazard. [5 marks]

(b) **EXPLAIN** the relationship between the location and distribution pattern of your chosen atmospheric hazard and:
i. climatic regions
ii. other related atmospheric hazards.

(Reference should be made to the broadsheet as well as your own sketch maps and/or diagrams.)

[8 marks]

(c) **IDENTIFY ONE** geomorphic hazard and **DISCUSS** the effectiveness of at least **TWO** current mitigation practices in the regions which they impact.

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(Refer to at least one case study and include sketch maps and/or diagrams where relevant.)
[12 marks]

PART B: UNIT 2B—Geography of sustainable resource use**Answer question 31 OR 32****QUESTION 31**

- (a) With the aid of a well-labelled sketch map, **DESCRIBE** the location (situation) of ONE renewable resource activity in Australia. [2 marks]
- (b) Using a systems model, **EXPLAIN** the operation of this renewable resource activity in terms of physical and cultural inputs, throughputs and outputs. [8 marks]
- (c) For ONE non-renewable resource activity in a less developed country, **DESCRIBE** and **EVALUATE** the effectiveness of current management practices that affect:
- the sustainable production of the resource
 - its associated natural environment.

(Refer to case studies and include sketch maps and/or diagrams where relevant.) [15 marks]

OR**QUESTION 32**

- (a) With the aid of a well labelled sketch map, **DESCRIBE** the location (situation) of ONE *non-renewable resource activity* in Australia. [2 marks]
- (b) Using a systems model, **EXPLAIN** the operation of this non-renewable resource activity in terms of physical and cultural inputs, throughputs and outputs. [8 marks]
- (c) **IDENTIFY** ONE renewable resource activity in Australia and **DISCUSS**:
- the impact of the resource activity on the associated natural environment, and [5 marks]
 - the extent to which these impacts have changed over time in Australia [10 marks]

(Refer to case studies and include sketch maps and/or diagrams where relevant.)

END OF PAPER**SEE NEXT PAGE**

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