VICTORIAN CURRICULUM AND ASSESSMENT AUTHORITY	
Victorian Certificate of Education 2021	SUPERVISOR TO ATTACH PROCESSING LABEL HERE
STUDENT NUMBER	Letter

OUTDOOR AND ENVIRONMENTAL STUDIES Written examination

Friday 5 November 2021

Reading time: 11.45 am to 12.00 noon (15 minutes) Writing time: 12.00 noon to 2.00 pm (2 hours)

QUESTION AND ANSWER BOOK

Structure of book

Number of	Number of questions	Number of
questions	to be answered	marks
11	11	90

- Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners and rulers.
- Students are NOT permitted to bring into the examination room: blank sheets of paper and/or correction fluid/tape.

• No calculator is allowed in this examination.

Materials supplied

- Question and answer book of 24 pages
- Additional space is available at the end of the book if you need extra space to complete an answer.

Instructions

- Write your **student number** in the space provided above on this page.
- All written responses must be in English.

Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.

A	Instructions nswer all questions in the spaces provided.	
	estion 1 (9 marks) ne an outdoor environment that you have visited and/or studied this year.	
	Using a specific example relevant to the outdoor environment that you have named, describe how nation-building had an impact on this outdoor environment.	3 mark
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	Using a specific example, describe how nation-building influenced the relationships that people had with the outdoor environment that you have named.	3 marl
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	Question	1 - contin

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	or thousands of years before the first Europeans arrived, Indigenous Australians had been living on ad manipulating the land and the environment.
	Then the First Fleet arrived, in January 1788, the new [non-Indigenous] settlers found themselves in a nd with a very different climate from the one they had left.
	Source: State Library of New South Wales, 'Australian agricultural and rural life: Life on the land <www.sl.nsw.gov.au australian-agricultural-and-rural-life="" life-land<="" stories="" th=""></www.sl.nsw.gov.au>
lan	ne an outdoor environment that you have visited and/or studied this year.
•	Identify and describe a specific interaction that the first non-Indigenous settlers had with the outdoor environment that you have named.
•	Explain how the first non-Indigenous settlers' experiences influenced their relationship with the outdoor environment that you have named.

3 marks

3 marks

Question 2 – continued

Compare the first non-Indigenous settlers' relationship with the outdoor environment that you have named with that of Indigenous Australians during the same time period.	5 m
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021 OUT	T&ENV STUDIES EXAM 6	
-	estion 3 (6 marks) ne an outdoor environment that you have visited and/or studied this year.	
a.	Identify one conservation interaction and one tourism interaction with the outdoor environment that you have named.	2 marks
	Conservation interaction	
	Tourism interaction	
b.	Describe how the two interactions identified in part a. influence societal relationships with the outdoor environment that you have named.	4 marks
	Conservation interaction	
	Tourism interaction	

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•	With reference to your response in part a. , explain how sustainable development could be further implemented in this outdoor environment.	3 marks
	visited and/or studied this year.	2 marks

Que	estion 5 (7 marks)
ecol con	government is considering turning a local mine into a number of lakes for both human use and as an ogical habitat. An Environment Effects Statement (EES) shows that the mine has significant groundwater tamination, high levels of soil erosion and a few species of introduced and native flora and fauna. The use eavy vehicles and machinery at the site also releases a large amount of carbon emissions into the air.
a.	Select a theme from the State of the Environment report.
	With reference to the information above and your selected theme, evaluate the health of the environment at the site of the mine.
b.	Name an outdoor environment that you have visited and/or studied this year.
	With reference to two observable characteristics, describe the health of the outdoor environment that you have named.
	Observable characteristic 1
	Observable characteristic 2

4 marks

3 marks

Question 6 (6 marks)

Great Barrier Reef has deteriorated to 'critical' level due to climate change

The conservation status for Australia's Great Barrier Reef has declined from 'significant concern' to 'critical' due to increasing impacts associated with climate change, a new report has found.

The damage to the reef is a result of ocean warming, acidification and extreme weather, which has resulted in coral bleaching, according to the International Union for Conservation of Nature's (IUCN) 2020 World Heritage Outlook report, which tracks whether the conservation of the world's 252 natural World Heritage sites is sufficient to protect them in the long term.

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The decline of the coral has also resulted in decreasing populations of certain marine species, researchers found. The reef, the most extensive in the world, houses more than 1500 species of fish.

Source: Julia Jacobo, 'Great Barrier Reef has deteriorated to "critical" level due to climate change', ABC News (USA), 7 December 2020, <https://abcnews.go.com>

With reference to the extract above, analyse the importance of a healthy Great Barrier Reef both for the physical and emotional wellbeing of individuals and for the future of society.

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021 OUT	T&ENV STUDIES EXAM 10	
	estion 7 (7 marks) ect two of the following significant threats by ticking (✓) the boxes beside them: land degradation introduced species climate change urbanisation other significant threat (please specify)	
a.	Predict the potential impact of the selected threats on society. Threat 1	4 marks
	Threat 2	
b.	Explain which of the selected threats may have a greater long-term impact on an outdoor environment that you have visited and/or studied this year.	3 marks

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Que	stion 8 (9 marks)	
Sele	ct one of the following environmental debates by ticking (\checkmark) the box beside it.	
	climate change	
	'We all smell the smoke, we all feel the heat. This environmental catastrophe is global.'	
	Source: Alexis Wright, 'We all smell the smoke, we all feel the heat. This environmental catastrophe is global', <i>The Guardian</i> , 18 May 2019	
	water management	
	'WATER is central to life on earth. The sustainable management of water resources is therefore vital and it is a challenge facing many across the world. For Australia, as one of the driest continents, efficient and sustainable water use is a critically important issue.'	
	Source: Dr Andrew Johnson, foreword, in CSIRO, The science of providing water solutions for Australia, February 2010	
	renewable energy	
	'Renewable energy sources accounted for 6% of Australian energy consumption in 2018–19.	
	Renewable electricity generation has more than doubled over the last 10 years, but combustion of	
	biomass such as firewood and bagasse (the remnant sugar cane pulp left after crushing) remains nearly half (45%) of all renewable energy consumption in Australia.'	
	Source: Australian Government – Department of Industry, Science, Energy and Resources, 'Renewables', <www.energy.gov.au></www.energy.gov.au>	
a.	With reference to the stimulus for the selected environmental debate, explain the current social and political debate that is occurring about the best use of Australia's natural resources.	5 marks
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021 OUT	&ENV STUDIES EXAM 14	
	stion 9 (10 marks) ct one of the following environmental conflicts by ticking (\checkmark) the box beside it:	
	marine national parks and sanctuaries	
	grazing in the Alpine National Park	
	desalination plant at Wonthaggi	
	proposed Great Forest National Park	
	extraction of coal seam gas	
a.	Explain the selected environmental conflict. In your response, identify the main opposing groups.	5 marks
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b.	Explain how one of the main opposing groups identified in part a. has implemented a specific method to influence decision-makers.	3 marks

Question 9 – continued

c. Describe the process that was used to resolve the selected environmental conflict or that could be used if this environmental conflict has not yet been resolved. 2 marks

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1.	Analyse the effectiveness of a management strategy used by public land managers to maintain the outdoor environment that you have named. Provide specific examples.	4 marks
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).	Select one of the following actions by ticking (\checkmark) the box beside it. green building design	
	integrated farming	
	Landcare	
	Landcare urban planning	
		4 mark
	urban planning Analyse how your selected action could help sustain the health of the outdoor environment that you	4 mark
	urban planning Analyse how your selected action could help sustain the health of the outdoor environment that you	4 mark
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	urban planning Analyse how your selected action could help sustain the health of the outdoor environment that you	4 mark

Question 11 (12 marks)

Name an outdoor environment that you have visited and/or studied this year.

With reference to the outdoor environment that you have named, evaluate the influence of the following factors on societal relationships:

- the effects of different technologies
- commercialisation of outdoor environments and outdoor experiences
- depictions of outdoor environments and outdoor experiences in **one** of the following:
 - the media
 - music
 - art
 - writing
 - advertising

Provide specific examples for each factor in your response.

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you write your student number in examination , place the answer bo	the space provided	on the front cover o	f the answer book. A	At the end of the

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