

## **WARNING**

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Family Name					
Given Name/s					
Student Number					
Teaching Period	Semester 2, 2018				

<b>ENV101 – Earth Systems</b>	<b>DURATION</b>	
	Reading Time:	<b>10 minutes</b>
	Writing Time:	<b>120 minutes</b>
<b>INSTRUCTIONS TO CANDIDATES</b>		
<p>The examination has <b>2</b> sections.</p> <p>Section A:                    40 marks - Marks for each question are of equal value  Suggested Time:            45 mins  Multiple Choice Questions:    Answer ALL 40 questions.</p> <p>Section B:                    60 marks  Suggested Time:            75 mins  Short Answer Questions:     Answer ANY 6 out of 8 questions</p> <p><b>Total marks for this examination: 100</b></p>		
<b>EXAM CONDITIONS</b>		
<p><b><u>You may begin writing from the commencement of the examination session.</u></b> The reading time indicated above is provided as a guide only.</p>		
This is a CLOSED BOOK examination		
No calculators are permitted		
No handwritten notes are permitted		
No dictionaries are permitted		
<b>ADDITIONAL AUTHORISED MATERIALS</b>	<b>EXAMINATION MATERIALS TO BE SUPPLIED</b>	
No additional printed material is permitted	1 x 16 Page Book 1 x 4-Multiple Choice Answer Sheet 1 x Scrap Paper	

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DOUBLE-SIDED.**

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## Section B

### Short Answer Questions

Total No of Marks for this Section: 60

This section should be answered in the Answer Booklet provided.

**Please Note** answer six (6) of the eight (8) questions in this section

Marks for each question are indicated. Suggested time allocation for Section B:  
75 mins

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\*\*\*Answer 6 of the 8 questions in this section\*\*\*

\*\*\* If you are asked to use diagrams in your answer you must include at least one diagram\*\*\*

#### Question 1

Using labelled diagrams and accompanying text as necessary, explain how human activity is currently impacting the carbon cycle.

(Marks: 10)

#### Question 2

Using labelled diagrams and accompanying text as necessary, explain the Davisian cycle of erosion.

(Marks: 10)

### Question 3

Using labelled diagrams and accompanying text as necessary, explain where water goes when it rains over land.

(Marks: 10)

### Question 4

Using labelled diagrams and accompanying text as necessary, explain the components of a unit hydrograph. Where does the water come from?

(Marks: 10)

### Question 5

Using labelled diagrams and accompanying text as necessary, explain the link between the global atmospheric circulation and the distribution of Earth's biomes.

(Marks: 10)

### Question 6

Using labelled diagrams and accompanying text as necessary, describe the factors affecting rates of weathering, erosion and soil formation.

(Marks: 10)

### Question 7

Using labelled diagrams and accompanying text as necessary, describe the physical characteristics and tectonic processes associated with: a) trailing edge coasts, and b) collision coasts.

(Marks: 10)

### Question 8

Choose one natural hazard that affects Australia. Using a risk equation, outline how you would assess the risk posed by the natural hazard you chose to the Australian population. You should define the terms of your equation.

(Marks: 10)