

# Quiz Instructions

## THE FINAL EXAM HAS THREE PARTS

**Part 1:** Framework knowledge. Answer questions about systems thinking & resilience.

**Part 2:** Case Study. Answer questions about the case study.

**Part 3:** Synthesize & Compare. You are asked to make comprehensive comparisons between the case study and your course project's system.

Question 1 4 pts

**Part 1: The foundation of systems thinking & building resilience. Refer to the textbook and Canvas lectures to answer the following questions.**

Answer all questions in complete sentences using the academic genre of writing.

NOTE: Exam answers will automatically receive a zero for grossly incomplete sentences or if significant components of the answer are not related to the question.

**QUESTION:** In week 2, we explored systems thinking with the Donella Meadows lecture. What are the **FOUR** biophysical necessities of sustainability?

Hint: This is in the video lecture notes.

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## Question 2

6 pts

**QUESTION:** In week 2, we explored systems thinking with the Donella Meadows lecture where she identified **SIX** components involved in a system. Identify and define these components.

Hint: Not all of the components are part of the system, but they're related.

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## Question 3

14 pts

**QUESTION:** In week 9, we explored the Stockholm Resilience Center's **SEVEN** principles for building resilience. Give an example of each of these principles.

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#### Question 4

9 pts

**QUESTION:** The first chapter of the textbook, Resilience Thinking, identified **THREE** categories of human-induced ecological destruction, also referred to as the reasons why people contribute to unsustainable systems. Name these categories and define them.

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#### Question 5

6 pts

**QUESTION:** In week 5, we learned what happens when a system crosses a threshold and changes into a new regime. Does a new regime indicate a positive or negative feedback loop? Explain your reasoning and define *threshold* and *regime* in your answer.

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## Question 6

10 pts

**QUESTION:** In week 6, we learned about the complex adaptive cycle and the **FOUR** phases inside two opposing modes (e.g. loops). Identify and describe each part of the adaptive cycle.

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## Question 7

6 pts

**QUESTION:** What is resilience thinking?

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Question 9

10 pts

**QUESTION:** In the film, China is recognized for buying more than three-quarters of the world's plastic scrap. Using systems thinking, identify and describe why China could not sustain buying the majority of the world's plastic scrap. Use the term "threshold" in your explanation and reference systems terms in your answer (e.g. function/goal, interrelationships, behavior, elements).

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Question 10

10 pts

**QUESTION:** In the film, a plastic bag ban was proposed in Laredo, TX. The film suggested that corporate financial backing interfered with government policy in Laredo, TX. Use the term "corporate financial influence" in your explanation and reference systems terms in your answer (e.g. function/goal, interrelationships, behavior, elements).

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## Question 11

10 pts

**QUESTION:** In the film, citizens and community activists in Malaysia are angry about foreign plastic waste in their country.

Using systems thinking, identify and explain the reasons behind the citizen's anger, their activism, and whether there is depicted evidence on how activism influenced Malaysian government policy on single-use plastic.

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### Part 3: Synthesize & Compare. Make comparisons between the video case study and your course project's system.

Answer all questions in complete sentences using the academic genre of writing.

NOTE: Exam answers will automatically receive a zero for grossly incomplete sentences or if significant components of the answer are missing or not related to the question.

**QUESTION PART 1:** Take one example from the video and identify the parts of a system of single use plastic (answers may vary based on your focus and argument).

**QUESTION PART 2:** Compare how this system is similar or different to aspects in your course project's system. Name two to three thoughtful observations of comparison.

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## Question 13

10 pts

**QUESTION PART 1:** Take one example from the video to identify and describe a positive feedback loop.

**QUESTION PART 2:** Compare how this is similar or different to aspects in your course project's feedback loop. Name one to two thoughtful observations of comparison.

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## Question 14

20 pts

**QUESTION:** The video case study provides two examples of a mindset. Name and identify one unsustainable mindset and one sustainable mindset in the case study.

Hint: the sustainable mindset is at the end of the film.

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Question 15

0 pts

EXTRA CREDIT BONUS QUESTION (2 points):

In the film, the word “greenwashing” was used. What does this mean?

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Question 16

0 pts

EXTRA CREDIT BONUS QUESTION (2 points):

In the film, the word “wish-recycling” was used. What does this mean?

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## Question 17

0 pts

EXTRA CREDIT BONUS QUESTION (1 point):

Define eutrophication.

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