



Student Name: _____

Class: _____

Student ID: _____

Date: {{DATE}}

Assessment Details

Duration: 60 minutes

Total Marks: 100

Topics Covered:

- Hurricanes
- Tornadoes
- Droughts
- Floods and Landslides

Instructions to Students:

1. Read all questions carefully before attempting.
2. Show all working out - marks are awarded for method.
3. Calculator use is permitted except where stated otherwise.
4. Write your answers in the spaces provided.
5. If you need more space, use the additional pages at the end.
6. Time management is crucial - allocate approximately 1 minute per mark.

Section A: Multiple Choice Questions [20 marks]

Question 1

[2 marks]

What is the primary cause of hurricanes?

A) Temperature differences between the equator and poles

B) Atmospheric pressure differences between high and low-pressure systems

C) Wind shear and moisture content

D) Ocean currents and salinity

Question 2

[2 marks]

Which of the following is a characteristic of a tornado?

A) High wind speeds and low pressure

B) Low wind speeds and high pressure

C) Heavy rainfall and thunderstorms

D) Clear skies and calm winds

Question 3

[2 marks]

What is the effect of drought on plant growth?

A) Increased growth and productivity

B) Decreased growth and productivity

C) No effect on growth and productivity

D) Increased susceptibility to disease

Question 4

[5 marks]

Describe the differences between a hurricane and a typhoon.

Question 5

[10 marks]

Explain the impact of weather disturbances on human societies, including economic, social, and environmental effects.

Question 6

[10 marks]

What are the causes and effects of drought on ecosystems?

Question 7

[5 marks]

Compare and contrast the effects of floods and landslides on the environment.



Question 8

[40 marks]

Analyze the impact of weather disturbances on ecosystems, including the effects on biodiversity, nutrient cycling, and ecosystem services.

Marking Guide

The marking guide will assess your knowledge, understanding, and application of the learning objectives. The criteria for evaluation include:

- Accuracy and completeness of information (40%)
- Depth and breadth of analysis (30%)
- Organization, coherence, and clarity of writing (20%)
- Use of examples and case studies to support arguments (10%)

Rubric for Multiple Choice Questions

* 1 point for each correct answer * 0 points for each incorrect answer

Rubric for Short Answer Questions

* 5 points for complete and accurate answers * 3 points for partial or incomplete answers * 0 points for incorrect or missing answers

Rubric for Essay Question

* Content (40%): accuracy, completeness, and depth of analysis * Organization and coherence (20%): clarity, logical flow, and effective use of transitions * Style and conventions (20%): grammar, spelling, punctuation, and formatting * Use of examples and case studies (20%): relevance, effectiveness, and integration into the argument

Implementation Guidelines

The assessment will be administered in a 60-minute class period. You will have 15 minutes to complete the multiple choice questions, 20 minutes to complete the short answer questions, and 25 minutes to complete the essay question.

Conclusion

Thank you for completing the Understanding Weather Disturbances assessment handout. Your answers will help evaluate your knowledge and understanding of various weather disturbances and their impacts. Please review your work carefully before submitting it to your instructor.