EASY

Question Type: Tossup
Question Format: Multiple Choice
Category: Physical

Question:
What part of a tidal cycle has minimal current?

Answer W: Ebb tide

Answer X: Slack tide

Answer Y: Flood tide

Answer Z: Lunar tide

Correct Answer: X
What is the name for a zone where temperature rapidly changes with depth?

Correct Answer: thermocline
**PHYSICAL OCEANOGRAPHY QUESTIONS**

**MODERATE**

**Question Type:** Tossup  
**Question Format:** Multiple Choice  
**Category:** Physical

**Question:**  
Which of the following is NOT a predominant characteristic of subtropical regions?

**Answer W:**  
Weak winds

**Answer X:**  
Weak surface currents

**Answer Y:**  
Clear skies with abundant sunshine

**Answer Z:**  
Stormy weather with high winds

**Correct Answer:** Z
MODERATE

Question Type: Bonus
Question Format: Short Answer
Category: Physical

Question:
In the wave equation, C equals L divided by T. What are the variables C, L, and T?

Correct Answer:
C = wave speed
L = wavelength
T = wave period
DIFFICULT

Question Type: Tossup
Question Format: Multiple Choice
Category: Physical

Question:
What does the term sigma-t define?

Answer W:
The specific gravity of sea water

Answer X:
The density anomaly of sea water

Answer Y:
The density of sea water

Answer Z:
The statistical variation in the density of sea water

Correct Answer: X
**DIFFICULT**

**Question Type:** Tossup  
**Question Format:** Short Answer  
**Category:** Physical

**Question:**  
Stokes Law states that the sinking velocity of a particle depends on which of the following factors?

**Answer W:**  
Whether the particle is phytoplankton or detritus

**Answer X:**  
The stratification of the water column

**Answer Y:**  
The intensity of wave action at the surface

**Answer Z:**  
The size and density of the particle

**Correct Answer:** Z