



# PHYSICAL OCEANOGRAPHY QUESTIONS



## 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



# PHYSICAL OCEANOGRAPHY QUESTIONS



## EASY

**Question Type:** Bonus

**Question Format:** Multiple Choice

**Category:** Physical

**Question:**

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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:**

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

**Answer W:**

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Weak winds

**Answer X:**

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Weak surface currents

**Answer Y:**

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Clear skies with abundant sunshine

**Answer Z:**

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Stormy weather with high winds

**Correct Answer:** Z



# PHYSICAL OCEANOGRAPHY QUESTIONS



## MODERATE

**Question Type:** Bonus

**Question Format:** Short Answer

**Category:** Physical

**Question:**

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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



# PHYSICAL OCEANOGRAPHY QUESTIONS



## 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



# PHYSICAL OCEANOGRAPHY QUESTIONS



## DIFFICULT

**Question Type:** Tossup

**Question Format:** Short Answer

**Category:** Physical

**Question:**

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

**Answer W:**

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Whether the particle is phytoplankton or detritus

**Answer X:**

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The stratification of the water column

**Answer Y:**

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The intensity of wave action at the surface

**Answer Z:**

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The size and density of the particle

**Correct Answer:** Z