Quiz 6

- Due Apr 29 at 11:59pm
- Points 100
- Questions 10
- Available Apr 22 at 2pm Apr 29 at 11:59pm
- Time Limit 15 Minutes

Instructions

This quiz is on the hurricanes (lectures 14, chapter 11).

- Time limit: 15 minutes
- The timer continues even if you exit the quiz

Attempt

- One attempt
- Open book/note

Quizzes have no due dates, but all quizzes must be completed by April 29, 2024.

Time

Score

This quiz was locked Apr 29 at 11:59pm.

Attempt History

LATEST	Attempt 1	15 minutes	90 out of 100
Score for this	quiz: 90 out of 100		
Submitted Ap	r 29 at 7:20pm		
This attempt	took 15 minutes.		
• • • • • • • • • • • • • • • • • • • •			
Question 1			
10 / 10 pts			
What is the d	ifference between a typ	phoon and a cyclone?	
Correct!			
Cyclones oc	cur in the Indian Ocean a	nd southern hemisphere; typ	phoons occur in northwest Pacific Ocean.
all of these			
○ Typhoons occu hemisphere.	r in the northwestern Paci	fic Ocean; cyclones occur in	the Indian Ocean and southern
o none of thes	se		
O Cyclones aff	ect continental regions; ty	phoons affect oceanic regio	ons.
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
Question 2			
10 / 10 pts			

If a hurricane is traveling at 20 mph and has a wind speed of 125 mph, what is the effective windspeed in the front right quadrant of the storm? (enter the number only)

Correct!

145

Between 145 and 145

ii

Question 3

10 / 10 pts

The image below shows the track of Hurricane Harvey in 2017. What was the most likely size of the Bermuda High?



C	0	r	r	е	C	t!

Large

Medium

○ Small

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Question 4 10 / 10 pts
The main source of energy for a hurricane is
Correct!
latent heat released by condensing water
O solar radiation
air moving from high pressure to low pressure
O temperature differences between the air masses making up the storm
Question 5 10 / 10 pts
A hurricane warning or tropical storm warning is issued by the National Hurricane Center in th United States
oto areas expected to experience hurricane-force or tropical storm-force winds within the next 24 hours.
oto areas expected to experience hurricane-force or tropical storm-force winds within the next 48 hours.
Correct!
oto areas expected to experience hurricane-force or tropical storm-force winds within the next 36 hours.
oto areas expected to experience hurricane-force or tropical storm-force winds within the next 12 hours.
Question 6 10 / 10 pts
The Saffir-Simpson scale for hurricane intensity is based on
maximum diameter of the storm.
minimum pressure at the storm center.
Correct!
maximum sustained wind speed.
maximum relative humidity at a recording station.
omaximum hourly rainfall at a recording station.
Question 7 10 / 10 pts
Is it possible for large thunderstorm clusters forming in equatorial regions (<5° latitude) to evolve into hurricanes?

- none of these
- Yes, equatorial regions are the most common place on Earth for hurricanes to originate.
- Although possible, there is less chance of a hurricane originating in equatorial regions.

Correct!

No; Coriolis forces at the equator are too weak to initiate rotation, so hurricanes never form in these areas.

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Question 8

10 / 10 pts

In degrees Fahrenheit, what is the minimum ocean water temperature needed for a hurricane to develop. (enter the number only)

Correct!

79

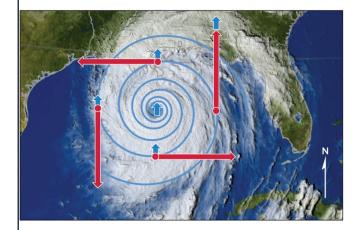
Between 79 and 79

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Question 9

0 / 10 pts

As illustrated in the figure below, where would the most damaging effects from wind be expected to occur?



along the western edge of the storm

Correct Answer

along the eastern edge of the storm

You Answered

along the northern edge of the storm

O along the southern edge of the storm
Question 10
10 / 10 pts
Tropical disturbances evolve into tropical depressions when thunderstorm clusters originating in tropical latitudes
O none of these
O have maximum sustained winds of 37–61 miles per hour.
Correct!
oll of these
O last for a day or more.
O circulate around low-pressure centers.
Quiz Score: 90 out of 100