

CHAPTER 11 Review Questions

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1. The United States deadliest hurricane happened in 1900 in Galveston, Texas. Approximately how many deaths did the hurricane cause?

- A) 1000
- B) 4000
- C) 2000
- D) 8000

2. Which "famous" hurricane was the costliest in United States history?

- A) Hurricane Diane
- B) Hurricane Hugo
- C) Hurricane Katrina
- D) Hurricane Floyd

3. A hurricane must have sustained wind speeds of at least

- A) 84 miles per hour.
- B) 64 miles per hour.
- C) 94 miles per hour.
- D) 74 miles per hour.

4. When occurring in the Atlantic Ocean they are known as hurricanes, what are they known as when occurring in the western Pacific?

- A) cyclones
- B) tropical breezes
- C) tsunamis
- D) typhoons

5. What are hurricanes known as in the Indian Ocean, including the Bay of Bengal and Arabian Sea?

- A) tropical breezes
- B) tsunamis
- C) cyclones
- D) typhoons

6. When a cyclone's strongest winds do not exceed 37 miles per hour it is called a:

- A) dust devil
- B) hurricane.
- C) tropical storm.
- D) tropical depression.
- E) tornado.

7. What is the single greatest advancement in tools used for observing tropical cyclones?

- A) meteorological satellites
- B) aircraft reconnaissance
- C) data buoys
- D) radar

8. What category of the scale of hurricane intensity is the strongest?

- A) 20
- B) 1
- C) 10
- D) 5
- E) 3

9. The very center of the storm is called the:

- A) eye wall..
- B) core.
- C) eye.
- D) eye ring.

10. Hurricanes develop most often in the late summer when ocean waters have reached what temperature?

- A) 50 degrees F
- B) 70 degrees F
- C) 100 degrees F
- D) 80 degrees F
- E) 60 degrees F

11. The doughnut-shaped wall of intense convective activity surrounding the center of the storm is called the:

- A) eye ring.
- B) core.
- C) eye wall.
- D) eye.

12. Since detection and tracking of hurricanes is now quite accurate, why does damage from these storms continue to increase?

- A) poor forecasts of landfall area
- B) changes in tidal pattern..
- C) continued development of coastal areas
- D) hurricane intensity is greater

13. Why do surface wind speeds increase toward the center of a hurricane?

- A) stronger Coriolis effect
- B) warmer water
- C) conservation of angular momentum
- D) reduced friction

14. Why do hurricanes in the Atlantic move toward the west during their early stages?

- A) They move away from areas of high salinity.
- B) Prevailing winds are from the east
- C) Warmer water temperatures guide them.
- D) steering influence of ocean currents
- E) Coriolis effect guides them.

15. Hurricanes form

- A) at various latitudes depending upon local conditions.
- B) between 5 degrees and 20 degrees latitude.
- C) between 35 degrees and 50 degrees latitude.
- D) at the equator.
- E) between 20 degrees and 35 degrees latitude.