

Name: _____

Date: _____

- 1 In a front, usually the _____ of two air masses predominates and forces the other _____.
 - A colder; up
 - B warmer; down
 - C colder; down
 - D warmer; up
- 2 Which of the following mark the passage of a cold front? (Input all that apply, then push the ENTER button.)
 - A Wind shift
 - B Increase in temperature
 - C Gradual clearing
 - D Rise in pressure
- 3 Where do the charges that generate lightning form within a cloud?
 - A Positive and negative charges form in the center of the cloud.
 - B Positive charges form near the top of the cloud, negative toward the bottom.
 - C Positive charges form on the outer layers, negative in the center.
- 4 A transition zone caused by one front overtaking another front is called a(n)
 - A Cold front
 - B Warm front
 - C Occluded front
- 5 A boundary between two different air masses, neither which is strong enough to replace the other
 - A Warm front
 - B Occluded front
 - C Stationary front
 - D Cold front
- 6 Which of the following are true about tornadoes? (Input all that apply, then push the ENTER button.)
 - A speed on earth can reach 100 mph
 - B may travel a path more than 100 miles
 - C winds in the vortex may exceed 300 mph
 - D about 300-400 feet in diameter

- 7 One of the strongest hurricanes ever recorded in the Western Hemisphere was Hurricane Katrina that hit the New Orleans in 1988, killing 500 and rendering 500,000 homeless. (Input all that apply, then push the ENTER button.)
- A change "Katrina" to Gilbert"
 - B change "Western" to "Eastern"
 - C change "New Orleans" to "Yucatan Peninsula"
 - D It is correct as is.
- 8 A localized, violently destructive windstorm occurring over land especially in the Middle West, and characterized by a long, funnel shaped cloud extending to the ground and made visible by condensation and debris
- A Waterspout
 - B Hurricane
 - C Cyclone
 - D Tornado
- 9 A coastal flood or tsunami-like phenomena of rising water commonly associated with low pressure weather systems and the timing of the tides
- A Storm surge
 - B Typhoon
 - C Willy-willies
 - D Tsunami
- 10 A sudden, violent windstorm, often accompanied by intense rain, snow or sleet
- A Squall
 - B Typhoon
 - C Tropical Cyclone
- 11 What causes closed homes and barns to explode as a tornado's vortex passes overhead?
- A the high speed of the tornado's wind
 - B wind sheer
 - C the difference in pressure in the vortex of the tornado and the normal pressure of air trapped inside

12 Flags and pennants hoisted by the National Weather Service and other shore stations indicating the presence of unfavorable winds in excess of 55 mph (48 knots) are known as

- A Gale Warning
- B Storm Warning
- C Small Craft Warning
- D Hurricane Warning

13 A tornado forms on the forward edge of a fully developed

- A altocumulus cloud
- B cirrus cloud
- C cumulonimbus cloud
- D

14 Which of the following is a characteristic of the final stage of a thunderstorm?

- A Rain falls heavily on the ground.
- B Water vapor cools and condenses into cloud.
- C Clouds grow taller and taller.
- D There is frictional drag between the raindrops and the surrounding air.

15 In regard to ship maneuvering, what is the most dangerous area in a hurricane in the Northern Hemisphere?

- A Left semicircle when in opposite direction to the storm movement.
- B Right semicircle when in opposite direction to the storm movement.
- C Left semicircle when in same directions as the storm movement.
- D Right semicircle when in the same direction as the storm movement.

16 Flags and pennants hoisted by the National Weather Service and other shore stations indicating the presence of unfavorable winds in excess of 55 mph (48 knots) are known as

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- 17 A warm front is characterized by
 - A A sudden line of thunderstorms with heavy rain lasting only a short time followed by rapidly clearing skies with lower humidity.
 - B Several hours or days of steady rain followed by cloudy humid weather after frontal passage.
 - C Several hours of steady rain, punctuated by imbedded thunderstorms with heavy rain with several more hours of steady rain following.
 - D Several days of rain with no apparent letup gradually clearing with no appreciable change in temperature or humidity.
- 18 Which zone develops between the arctic air of the far north and the polar maritime air of the Pacific and Atlantic Ocean?
 - A Western Frontal Zone
 - B Polar Frontal Zone
 - C Intertropical Convergence Zone
 - D Arctic Frontal Zone
- 19 Which of the following is a characteristic of the final stage of a thunderstorm?
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 - B Rain falls heavily on the ground.
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 - D There is frictional drag between the raindrops and the surrounding air.
- 20 The U.S. Hurricane Warning System receives most of its information from
 - A satellites
 - B naval vessels
 - C land stations
 - D reconnaissance aircraft

Answer Key: NS2-M3C10 - Fronts and Storms (Exam)

Question:	Answer
1	A
2	AD
3	B
4	C
5	C
6	BCD
7	AC
8	D
9	A
10	A
11	C
12	B
13	C
14	A
15	D
16	B
17	B
18	D
19	B
20	A