

Name: _____

Date: _____

- 1 What can cloud seeding cause? (Input all that apply, then push the ENTER button.)
 - A Rain to fall from a cloud that normally would not produce rain.
 - B Rain to fall sooner.
 - C Rain to fall over a large area.
 - D Rain to fall from fair skies.
- 2 When rain formed in relatively warm air falls through a layer of freezing air, what occurs?
 - A snow
 - B hail
 - C rain
 - D sleet
- 3 _____ is likely to develop when _____ air that has passed over _____ water moves to an area of _____ water.
 - A warmer; warm; colder
 - B colder; warm; colder
 - C warmer; cold; colder
- 4 A cloudlike mass or layer of minute water droplets or ice crystals near the surface of Earth, appreciably reducing visibility
 - A Dew
 - B Smog
 - C Fog
 - D Steam
- 5 A cloud of a class characterized by thin white filaments or narrow bands and a composition of ice crystals; of high altitude, about 20,000 - 40,000 feet
 - A Cumulus
 - B Cirrus
 - C Stratus
- 6 A cloud of a class indicative of thunderstorm conditions, characterized by large, dense towers that may reach altitudes of 75,000 feet, uniform except for the tops, which appear fibrous because of the presence of ice crystals
 - A Cirrus
 - B Cumulonimbus
 - C Nimbus
 - D Altostratus

- 7 Showery precipitation in the form of irregular pellets or balls of ice more than 1/5 inch in diameter
 - A Sleet
 - B Hail
 - C Frost
- 8 Moisture condensed from the atmosphere and deposited in the form of small drops upon any cool surface
 - A Dew
 - B Rain
 - C Fog
- 9 Water vapor that condenses on objects that have cooled below the condensation point of the air around it is known as
 - A Dew
 - B Snow
 - C Frost
 - D Fog
- 10 Generally middle clouds can be observed at
 - A 3,000 to 5,000 feet
 - B 20,000 feet and above
 - C 1,000 to 3,000 feet
 - D 7,000 to 20,000 feet
- 11 Great fog areas often occur off Newfoundland because the
 - A colder air over the Gulf Stream meets the warm inshore currents moving eastward from the Gulf of St. Lawrence.
 - B warm air over Japanese Current meets the cold current from the Bering Sea.
 - C warm air over the Gulf Stream meets the colder inshore currents coming south from Greenland.
 - D All of the above are correct answers.
 - E None of the above are correct answers.

- 12 Clouds are formed by
 - A moisture from frozen carbon dioxide.
 - B rising moisture from the earth that condenses when it meets cooler air aloft.
 - C ice crystal meeting silver iodide in the upper atmosphere.
 - D moisture droplets.
- 13 What are three steps in the atmospheric water cycle?
 - A Evaporation, Transpiration, and Convection
 - B Evaporation, Condensation, and Precipitation
 - C Convection, Adiabatic, and Transpiration
- 14 Which of the following statements best describes steam fog?
 - A Indicates that clear and cold weather can be forecast
 - B A low-lying cloud, near or touching the surface of the earth
 - C Formed by air saturation
- 15 Why do clouds form above Islands?
 - A Land is cooler than water
 - B Moisture rises from vegetation, meets cooler air and condenses
 - C There is no wind over the Island
- 16 Hail usually occurs in the _____.
 - A summer
 - B spring
 - C winter
 - D fall
- 17 Which of the following statements best describes steam fog?
 - A A low-lying cloud, near or touching the surface of the earth
 - B Formed by air saturation
 - C Usually lifts before noon, having been "burned" away by the sun
 - D Indicates that clear and cold weather can be forecast

- 18 Silver iodide crystals have been successfully used to
- A cause moisture-laden cirrus clouds to freeze into ice crystals.
 - B artificially seed clouds and cause rain to fall.
 - C convert cumulonimbus into cumulus clouds.
 - D lower cloud ceilings and cause rain to fall.
- 19 Which of the following are NOT involved in the formation of clouds?
- A Natural convection.
 - B Hygroscopic nuclei.
 - C Freezing layers of the atmosphere.
 - D Humidity.
- 20 San Francisco is known for its thick fog because:
- A The warm water off the coast meets the cool air coming down from the mountains.
 - B The relatively moist air from the Pacific meets the cool water currents flowing from the north.
 - C The shape of the entrance to San Francisco Bay funnels the local clouds to the surface.
 - D All of the above are correct answers.
 - E None of the above are correct answers.

Answer Key: NS2-M3C8 - Clouds and Fog (Exam)

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