Synoptic Meteorology - Review Questions



- 1. Which of the following is not required for precipitation?
 - a. condensation nuclei
 - b. a source of lift
 - c. moisture
 - d. southerly winds
- 2. Sleet and freezing rain are caused by a cold layer of air aloft (TRUE, FALSE)?
- 3. Which one of these clouds can produce heavy precipitation?
 - a. cumulonimbus
 - b. stratocumulus
 - c. altostratus
 - d. nimbostratus
- 4. A mid-level cloud deck that has a heap-like appearance would be called?
 - a. altostratus
 - b. altocumulus
 - c. cumulus
 - d. stratocumulus
- 5. A high level cloud that forms in a layer would be called?
 - a. cirrus
 - b. cirrocumulus
 - c. cirrostratus
 - d. altostratus
- 6. Sleet will typically occur to the north of a warm front. (TRUE, FALSE)
- 7. An east wind means that the air is moving from west to east. (TRUE, FALSE)
- 8. A west wind means that the air is moving from west to east. (TRUE, FALSE)

q	The for	rce that results from the rotation of the earth is called the	force
J.	a. b. c.	pressure gradient coriolis frictional convergence	_ 10100.
	u.	Convergence	
10.	a. b. c.	rce that results from roughness of the earth's surface is called the pressure gradient coriolis frictional divergence	force.
11.	The for	rce that results from equalizing pressure differences is called the	force.
•	a. b. c.	pressure gradient coriolis frictional convergence	101001
12.	Air (div	rerges, converges) near high pressure and (diverges, converges) near low pressu	re.
Use the	e station	plot, to the right, to answer questions 13 through 16.	98 <i>→</i> 124
13.	a. b. c.	mperature at the station is 78°F 98°F 124°F 78°C	10 Q -03 78 20
14.	a. b. c.	ewpoint at the station is 78°F 98°F 124°F 78°C	
15.	a. b. c.	essure at the station is 998 mb 978 mb 912.4 mb 1012.4 mb	

- 16. The wind direction and speed is
 - a. southeast at 15 kt
 - b. northwest at 10 kt
 - c. southeast at 20 kt
 - d. northwest at 15 kt
- 17. Which cloud is not a high level cloud?
 - a. Cirrocumulus
 - b. Cirrostratus
 - c. Cirronimbus
 - d. Cirrus
- 18. Which type of clouds is not a low level cloud?
 - a. Cumulonimbus
 - b. Cumulus
 - c. Cirrocumulus
 - d. Stratocumulus
- 19. Which type of cloud begins as a middle layer cloud, but as it develops, the base of the cloud lowers in the low-level clouds.
 - a. Altostratus
 - b. Stratus
 - c. Cirrostratus
 - d. Nimbostratus
- 20. Which type of cloud produces thunderstorms?
 - a. Nimbostratus
 - b. Cumulonimbus
 - c. Nimbocumulus
 - d. Altostratus