Physical Science 111			Name			
Q	uiz: Clouds and Precipitation					
Part One: Multiple Choice - There is only one correct answer to each question. Choose the best answer.						
1.	Which term is used to describe the state ca. sublimation b. evaporation			liquid? condensation	d. deposition	
2.	A parcel of air has a specific humidity of 1 50%. As the air is warmed but no moisture a. the relative humidity increases c. the relative humidity decreases	e is adde b. the s	ed: pecific hum	nidity increases	a relative humidity of	
3.	As air rises and expands it: a. cools b. warms		c. remains	at a constant ter	mperature	
4.	Stable air is: a. cooler than the surroundings c. the same temperature as the surround			than the surround be determined	ding	
5.	The normal lapse rate is:  a. the rate that a parcel of air cools as it is  c. the rate the atmosphere cools with heir			a parcel of air w the atmosphere	arms as it rises warms with height	
6.	When air is lifted because it encounters a a. frontal wedging b. orographic			is called: c expansion	d. none of these	
7.	The cloud type whose name means layers a. cumulus b. nimbus	s is: c. cirrus	5	d. stro	atus	
8.	The cloud term that means stormy is: a. cumulus b. nimbus	c. cirrus	5	d. stro	atus	
9. Which of the following is not a proposed mechanism for rain formation?  a. hygroscopic condensation b. collision-coalescence c. ice crystal process d. all are mechanisms						
10	<ol> <li>Two parcels of air have the same specific has the greatest relative humidity?</li> <li>the warm one b. the cool one</li> </ol>		ity. One is v		cool. Which air parcel ufficient information	
<ul> <li>Part Two: True/False</li> <li>T F 1. Fog is a cloud with its base at or near the ground.</li> <li>T F 2. Deserts form on the windward side of mountains.</li> <li>T F 3. The wet adiabatic rate is always slower than the dry adiabatic rate.</li> <li>T F 4. Air at the dew point has a relative humidity of 100 percent.</li> <li>T F 5. When stable air is forced to rise it forms towering clouds.</li> </ul>						
	art Three: Completion  A device used to measure relative humidi	ity and c	New naint is	called a(n)		
	<ol> <li>A device used to measure relative humidity and dew point is called a(n)</li> <li>The state change from a liquid to gas is called</li> </ol>					
	3. Clouds that are fluffy with low bases and vertical development and are associated with fair weather are called					
4.	4. During state changes heat is released or absorbed. This type of heat is called					
5.	5. When air is holding the maximum amount of water vapor that it can it is said to be					

## Answers

## **Multiple Choice**

1.c 2.c 3.a 4.a 5.d 6.b 7.d 8.b 9.d 10.b

## True/False

- 1. True
- 2. False all the rain is dumped on the windward side. The leeward side is the desert.
- 3. True because of latent heat released during condensation
- 4. True
- 5. False unstable air forms towering clouds

## Completion

- 1. hygrometer
- 2. evaporation
- 3. cumulus
- 4. latent heat
- 5. saturated