Nitrogen Cycle Worksheet

1. What is the largest reservoir that contains about 78% of all N_2 ?

	(A) Bacteria(B) Atmosphere(C) Plants(D) Soil
2.	The process where N_2 molecules in the air break apart and combine with other atoms to form ammonia.
	 (A) Ammonification (B) Assimilation (C) Denitrification (D) Nitrification (E) Nitrogen Fixation
3.	This type of nitrogen fixation occurs when energy from lightning breaks N_2 molecules apart and they combine with oxygen forming N_2O .
	(A) Atmospheric Fixation(B) Biological Fixation(C) Industrial Fixation
4.	Industrial fixation is the process of combining N ₂ with H ₂ to form
	(A) ammonia.(B) nitrates.(C) nitrites.(D) proteins.
5.	Returning nitrogen to the atmosphere by bacteria living deep in swampy sediments is the process of
	 (A) ammonification (B) assimilation (C) denitrification (D) nitrification (E) nitrogen fixation

SC20F Page1 of 2

6.	This form of nitrogen fixation is where most nitrogen "fixing" takes place.
	(A) Atmospheric Fixation(B) Biological Fixation(C) Industrial Fixation
7.	Nitrogen fixing by bacteria living in root nodules of plants is called a/anrelationship.
	(A) asexual(B) cyclical(C) symbiotic(D) fraternal
8.	This process in the nitrogen cycle involves bacteria in the ground combining ammonia with oxygen to form nitrates.
	 (A) ammonification (B) assimilation (C) denitrification (D) nitrification (E) nitrogen fixation
9.	Suggest a way that nitrogen from a farmer's field could end up in a lake.
10.	Some of the fertilizers that are applied to fields may be lost to the air or water. This is wasteful and expensive for farmers. Suggest a change in technology or farming practices that could reduce the loss.

SC20F Page2 of 2