SBI3U Mini Test 2 Unit 1

1.	Prokaryotes are found in few habitats on EarthF
	Prokaryotes are found in many habitats
2.	Bacteria that cannot live in environments with oxygen are considered Facultative anaerobesF
3.	The capsule of a protein surrounding a virus is called a capsid. T
4.	Most species of viruses can infect only a single host speciesT
5.	Malaria is an example of a disease caused by a bacteriophageF Protist
6.	Blue-Green algae is a photosynthetic protist . F Bacteria
7.	A halophile is an example of a eubacteria . F Archaea
8.	Conjugation is a process involved in the asexual reproduction of unicellular protistsF bacteria
9.	The key difference between Lytic and Lysogenic cycle that during the Lytic cycle the bacteriophage is not active. FLysogenic cycle
	Short Answer:
	 List any 3 Plant-like protists. Red dinoflagellates, diatoms, dinoflagellates, euglena, Green algae
	2. Why is the Protist Kingdom considered the 'junk drawer' of kingdoms? Scientist use this Kingdom to classify organisms that don't fit into any of the other kingdoms (animalia, Plants, Archaea, Eubacteria and Fungi) . It is called the junk drawer, because it is where organisms are placed when they don't belong anywhere else.
	 Malaria is a disease in humans that causes more than a million deaths a year. a. Identify the specific protist that causes malaria Plasmodium sp.

b. How is malaria spread?Through mosquitos

c. Briefly describe the lifecycle (use point form)

(see your diagram handout from class)

4. What is transduction? Explain where/when it occurs during the Lysogenic cycle. (You may include a sketch in your answer)

Transduction is a process of genetic exchange. It occurs when a virus inserts its DNA into a bacteria, thus making it a bacteriophage. The bacteriophage undergoes the Lysogenic cycle.

Part 3: Fill in the Blanks /10:

Gram Positive Gram Staining Chlamydia Lipopolysaccharide Cyanobacteria nucleus DNA

Gram Negative Meningitis Peptidoglycan Proteobacteria eukaryotes prokaryotes organelles

Bacteria are __Prokaryotes_ that contain no organelles_ and __no nucleus___. Bacterial cell walls contain a compound composed of peptidoglycan which is useful for scientists when using a gram staining__. Bacteria that stain pink are called gram negative whereas bacteria that stain purple are called gram positive A group of gram positive bacteria can be useful for humans such as when used in yogurt, or can be harmful such as when causing __meningitis__. Another group of bacteria that causes a disease known as the Bubonic plague is called __proteobacteria__.