

Team Name: _____

Score: ___ / 72

Microbe Mission Practice Test

1. What are the 3 domains of life? (3 pts)
2. List 2 characteristics all cells have. (2 pts)
3. Name two microbes that are not alive. Provide the names and structure (2 pts)
4. Define the Endosymbiont Theory and provide three pieces of evidence to support it. (4 pts)

5. Transmissible spongiform encephalopathies (4 pts)
 - a. Definition

 - b. What causes them?

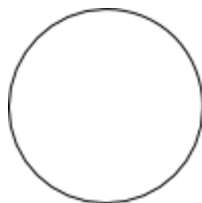
 - c. Give two examples

6. What's the difference between gram positive and gram negative bacteria? (3 pts)
How can you test the difference?

7. What does rhinovirus cause? (1 pt)
8. What are the 3 basic shapes of bacteria? (3 pts)

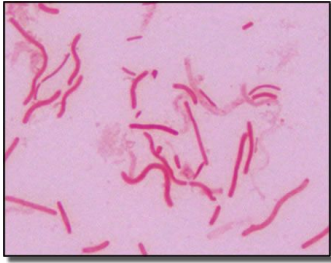
9. What's a viroid? How is it different than a virus? (2 pts)

10. What is one reason the flu thrive in the winter? (2 pts)
11. Conversions (2 pts)
- a. How many micrometers are in a millimeter?
 - b. How many nanometers are in a micrometer?
12. What are the 4 liquids used in Gram Staining and what do they do? (4 pts)
13. Where was Taq DNA Polymerase found and in what organism? (2 pts)
14. What is the first amino acid of a protein in Archaea? (1 pt)
15. What is the sugar coat surrounding a bacterial cell? (1 pt)
16. Slime time~ (6 pts)
- a. What is in a slime layer?
 - b. What type of molecules are typically found in a slime layer?
 - c. How do you remove a slime layer?
17. When alpha hemolysis (α -hemolysis) is present, the agar under the colony is what color? (1 pt)
18. A non-hemolytic organism displays what kind of hemolysis? (1 pt)
19. Define Beta hemolysis (β -hemolysis). (1 pt)
20. What is the most common promoter in Archaea? (1 pt)
21. Which domain(s) are affected by diphtheria toxin? (1 pt)
22. What test detects the presence of tryptophanase? (1 pt)
23. Streak this plate (1 pt)



24. What shape is this bacteria?

(1 pt)



25. Name the structure the arrow is pointing to (it looks like empty space)

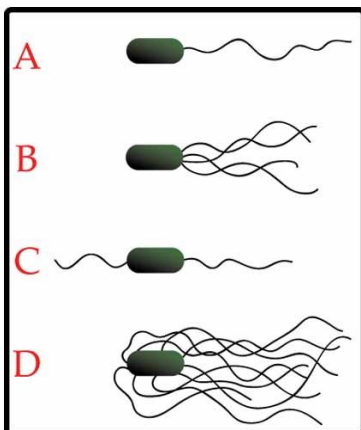
(1 pt)



26. Draw a bacteriophage. Label different parts and include what macromolecule they are made of. (3 pts)

27. Name the type of flagellar arrangements shown below.

(4 pts)



28. Fill in the table

(14 pts)

Name	Type of Microbe	Size (μm)
Amoeba		
Diatom		
Cyanobacteria		
Euglena		
E. Coli		
Rhinovirus		
Lactobacillus		
Staphylococcus		
Smallpox		
Paramecium		
Rabies		
Influenza		
Polio		
Yeast		