

## The Cell

1. What is the definition cell?

### Cell Theory

2. What are the three parts to the cell theory?
  - a)
  - b)
  - c)
3. What is the first exception to the cell theory?
4. What is the second exception to the cell theory?

### The Nucleus

5. What are the two important functions of the nucleus of cells? Explain each function.
  - a)
  - b)
6. What is the function of chromosomes?
7. What is the function of the nuclear envelope nuclear pores?

### Cell Membrane and Cell Wall

8. What are the functions of the cell membrane?
9. What is the cell membrane composed of?
10. What is the function of the cell wall?
11. What types of organisms have a cell wall surrounding their cells?

### The Cytoplasm and Organelles

12. What is the cytoplasm of cells?
13. What is cytoplasmic streaming?

### Endoplasmic Reticulum

14. What is the function of smooth endoplasmic reticulum?
15. What is the function of rough endoplasmic reticulum?

### Ribosomes

16. What is the function of ribosomes?
17. What is the difference in function and location between “free” ribosomes and “bound” ribosomes?

### Golgi bodies or Golgi apparatus

18. What are golgi bodies? What is the function of golgi bodies?
19. What types of cell have a large amount of golgi bodies?

### Mitochondria

20. What is the function of mitochondria?
21. What types of cells have a large amount of mitochondria?
22. What is unique about mitochondria?

### Plastids

23. What are plastids and where are they found?
24. What are some examples of plastids?

### Vacuoles

25. What are vacuoles? What are the functions of vacuoles?

### Lysosomes

26. What are lysosomes? What is the function of lysosomes?

### Other Organelles

27. What are microtubules and what is their function?
28. What are spindle fibers and what is their function?
29. What are cilia and flagella and what are their functions?
30. What is the difference between cilia and flagella?