

1. What is cell theory?

A. B. C.

A. B. C.

End of Quarter 4 Exam Spring 2014 Study Guide

Ī	Organelle	Function
-	Nucleus	
-	Mitochondria	
-	Cell wall	
-	Cell membrane	
-	Chloroplast	
-	Ribosome	
•	Cytoplasm	
•	Vacuole	
-	Endoplasmic reticulum	
-		
3.	Name the levels of organi	ization from gene to organism.
4.	What is sexual reproducti	on? Give three examples.

2. Name the functions of the following organelles .Designate as plant, animal, or both.

5.	b. What is asexual reproduction? Give three examples.	
	A.	
	B.	
	C.	
6.	Name the functions of the f	ollowing body systems.
	Body System	Function
	Digestive	
	Respiratory	
	Skeletal	
	Nervous	
	Endocrine	
	Circulatory	
	Integumentary	
7	What is a physical change?	? Give three examples
	What is a physical sharigs.	Cive times examples.
	A.	
	B.	
	C.	
8.	What is a chemical change	? Give three examples.
	, and the second	·
	A. B.	
	C.	
0	What is an argania malagui	o2 Givo an ovamplo
9 .	What is an organic molecul	e: Give an example.

10. What elements are usually associated with an organic molecule?

11. What is a molecule? Give two examples.
A. B.
12. How many molecules, atoms and elements in 3H ₂ SO ₄ ?
13. What does MSDS stand for? Where should it be kept in the laboratory?
14. What should you do if something breaks, catches fire, or spills in the laboratory?
15. What should you use to measure volume in the laboratory? Mass? Length? Volume – Mass – Length -
16. What is Genetics?
17. What is heredity?
18. How many chromosomes are donated by each parent? Genes?
19. What is DNA? What is its unique shape?
20. What is a chromosome?
21. What is a gene?

22. Name the levels of organization from gene to organism.					
23. Give examples of the following forces: Use arrows to show direction of force and N for force applied.					
A. Balanced Force					
D. Habalan and Fare					
B. Unbalanced Ford	e				
C. Net Force					
24. Complete the follow	ing table:				
Simple Machine	Function	Examples			
Inclined Plane		•			
Wedge					
Screw					
Lever					
Wheel & Axle					
Pulley					

25. Is work being done if nothing is moved?

26. What is mechanical advantage?

27. Complete the following table of Newton's Laws of Motion.

Newton's Law	Examples
1 st Law	
2 nd Law	
3 rd Law	

veb in a grassland.

gy pyramid in a grassland.

30. Why is biodiversity so important in an ecosystem?					
31. What is a dichotomous key? How can it help identify an organism?					
32. Complete the following table on biome characteristics.					
Biome	Characteristics				
Tundra	Characteristics				
Desert					
Rainforest					
Aquatic					
Grasslands					
Deciduous Forest					
Coniferous Forest					
33. What is primary succession?					
34. What is a pioneer s	pecies? Name two.				
A.					
B.					
35. What is secondary soccurs.	succession? Name three reasons why this type of succession				
A. B. C.					
36. What is an opportun	istic species? Name two.				
A. B.					

37. What is a climax community?
38. What is the carbon-oxygen cycle?
39. What is the nitrogen cycle?
40. Can plants and animals use atmospheric nitrogen? Why?
41. List five ways humans impact an ecosystem.A.B.C.D.E.
42. What is a watershed? What is its shape?
43. Where does the water come from in a watershed? Where does it go?
44. What is natural section? Give three examples.
A. B. C.
45. What is selective breeding? Give three examples how it is utilized.
A. B. C.

46. What is a catastrophic event? Describe three events.

A.

B.

C.