Name			
Cell Theory and Mi	icroscopes		
Questions 1-3, List	the three parts of cell theor	y.	
1			
2			
Questions 4 -5, Pro Use the word blank	ovide 3 distinct characteristi below.	cs for each prokaryotic o	cells and eukaryotic cells
Has Nucleus Includes Animals, pla	Has DNA Lacks Nuc ants, fungi, and protists.		
4. Prokary	otic cells	5. Euka	aryotic Cells
A		A	
B		В	
C		C	
D		D	
		E	
6.Name two charact the word bank from	teristics both Eukaryotic Ce above.	lls and Prokaryotic cells	have in common. Use
A			
В			
Questions 7- 9, Ca	Iculate the Magnification of	each Objective lens belo	OW.
7. Eye Piece	<u>x</u> X Low Power	<u>x</u> =	<u>_X</u>
8. Eye Piece	x X Medium Power	x =	x
9. Eye Piece	x X High Power	<u>x</u> =	X
Questions 10-11, A	nswer the following questio	ns about the Microscop	e and its usage.
10. On which power	r(s) is the course adjustmen	t knob used?	
	(s) is the fine adjustment kr		
	(1) III III III III III III III III III I		

Structures inside the cell.				
Questions 12-22, Fill in the blank with the organelle that best fits the description. Use the following terms: Lysosome, Cytoplasm, Vacuole, Ribosomes, Golgi Apparatus, Chloroplast, Mitochondria, Cell Wall, Cell Membrane, Nucleus, Endoplasmic Reticulum				
12. The is the outermost living layer of the cell and it controls movement into and out of the cell.				
13.The is the control center of the cell and it regulates the cells activities. Contains the DNA of the Cell.				
14. The is a jelly-like substance that contains the organelles and allows them to move throughout the cell.				
15. The is the site of cellular respiration . It is often called the powerhouse of the cell.				
16.The captures energy from sunlight and uses it to produce food in plants.				
17.The packages materials for transport outside of the cell.				
18.The is the organelle responsible for transporting materials within the cell.				
19.The supports and protects plant cells.				
20. A small sac in the cytoplasm which breaks down food, old cell parts, and dead, injured, or obsolete cells is the				
21.A large sac in the cytoplasm which stores food, water, or wastes is a				
22. Small grain shaped organelles that produce protein are called				
23 Name the macromolecule thats produced in the rough endoplasmic reticulum				
24 Name the macromolecule thats produced in the smooth endoplasmic				

Name_____

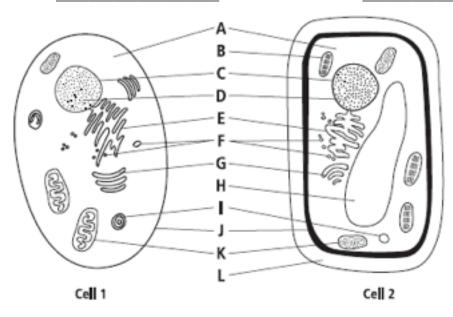
reticulum_____.

Name							
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Questions 25-36, Identify the organelles depicted in the cells below. Use the following terms: Animal, Ribosomes, Cytoplasm, Plant, Vacuole, Golgi Complex, Chloroplast, Mitochondria, Cell Wall, Cell Membrane, Nucleus, Endoplasmic Reticulum, Lysosome

A.	
В.	
	nuclear membrane
D.	
G.	
J	

37. Cell 1 is a :_____ cell 38. Cell 2 is a :____ cell



Name

Directions: List the four types of macromolecules, provide a function and a food source.

Macromolecule	Function	Food Source