High School I	Biology Cell Test
Name	
Date	
Period	
Multiple Cho	nice
	the best answer for the following questions.
What did Rob	pert Hooke first look at under the microscope to discover the cell?
a)	Bark
b)	Cheek tissue
c)	Cork
d)	Grass
Which of the	following are part of the cell theory?
a)	Everything is made of cells
b)	All existing cells are produced by other living cells
c)	Atoms are the basic unit of life
d)	All cells reproduce by mitosis
	of is protein synthesis.
a)	Endoplasmic reticulum
,	Ribosome
c)	Nucleus
<i>'</i>	Vacuole
	itochondria's role in the cell?
	Cell respiration
	Protein synthesis
	Photosynthesis
,	Vesicle transportation
The cell mem	brane is best described as
a)	
	of the cell
b)	The semifluid solution outside the plasma membrane
c)	
d)	All of the above

True or False

Please circle either T or F for each of the following statements.

T or F Schwann first noted that plants are made of cells.

- T or F Prokaryotic cells have membrane bound organelles.
- T or F The cell membrane is selectively permeable.
- T or F The cell wall structure is identical in both plant and bacterial cells.
- T or F Diffusion allows both the solvent and solute to distribute evenly, but osmosis only allows for the solvent to move between the barriers.

Matching

Place the correct letter from the definition side in front of the organelle on the left side.

Nucleus	a. processes, packages, and secretes proteins
Vacuole	b. carries out photosynthesis
Centriole	c. command center of cell
Chloroplast	d. short cylinders that move organelles
Golgi apparatus	e. fluid-filled sac that stores nutrients

Fill in the Blank

Please fill in the following blanks with the best word or pi	hrase.

The two organelle	s involved with energy conversion in a plant cell are and	d
DNA in a prokary	otic cell is found in the	
is	a cell structure found in both prokaryotic and eukaryotic cells.	
	molecules diffuse across the plasma membrane with the proteins, such as channels and carriers.	th
In a	solution water will leave the cell making it shrivel up.	

Short Answer

For the following question please respond in a minimum of 5-6 sentence paragraph Compare and contrast the three types of osmotic solutions and give an example to support your claim.

Essay

For the following short essay please answer with at least two 5-6 sentence paragraphs. What is the role of the bilayer cell membrane and how does it aid in the cell's processes? Please explain the different proteins found in the cell membrane, their roles, and the different types of transport in and out of the cell.