HONORS BIO Cell Structure and Function ?'s (APBIO) NAME	(f15)
MULTIPLE CHOICE: Circle all that are TRUE. There may be MORE THAN ONE correct answer.	
Which of the following is TRUE of cell (plasma) membranes?	
A. Cell membranes allow ALL substances to pass through easily	
B. It is selectively permeable so only certain molecules can pass through it.	
C. It acts more like a fluid than a solid because its molecules are constantly moving.	, , , , , , , , , , , , , , , , , , ,
D. Cell membranes surround all animal, plant, and bacterial cells.	
E. It is a bilayer composed mainly of phospholipids and proteins	
Cells like muscle cells which require lots of energy have many	
A. nuclei	
B. flagella	
C. mitochondria	
D. lysosomes	
Viruses, bacteria, and old organelles that a cell wants to get rid of are broken down in	
A. ribosomes	
B. mitochondria	
C. rough ER	
D. lysosomes	
Mitochondria store the energy released when they burn glucose as	
A. DNA	
B. ATP	
C. SER	
D. RNA	
The dark spot seen in the nucleus in non-dividing cells where ribosomal RNA is made is called the	
A. cristae	
B. nucleolus	
C. plastids	
D. cytosol	
ALL of the following are functions of Smooth ER EXCEPT	
A. make steroids in gland cells	
B. regulate calcium in muscle cells	
C. make ribosomal RNA	
D. break down toxins in liver cells	
The cells organelles that are surrounded by DOUBLE MEMBRANES and contain their OWN DNA o	ire the
A. nucleus, ER, and lysosomes	

B. nucleus, vacuoles, and chloroplasts

C. nucleus, chloroplasts, and mitochondria

D. ER, Golgi bodies, and vacuoles

Look at the picture on page 204 and remember what you learned from the last chapter. Which two molecules are used to make cell membranes? A. carbohydrates and glycogen B. polysaccharides and nucleic acids C. phospholipids and starch D. phospholipids and proteins E. nucleic acids and lipids
In the last chapter you learned about integral proteins with sugars attached which stick out on the
exterior surface of cell membranes and help recognize "self" called A. amino acids
B. lipoproteins
C. glycoproteins
D. monosaccharides
One difference between eukaryotes and prokaryotes is that
A. prokaryotes are surrounded by a cell membrane and eukaryotes are not
B. prokaryotes have a nucleus and eukaryotes don't
C. eukaryotes have DNA and prokaryotes don't
D. eukaryotes have a nucleus and membranes around their organelles and prokaryotes don't
Cell membranes form because the hydrophobic tails on phospholipids try to water.
A. be near
B. stay away from
Which cell part plays a role in apoptosis?
A. lysosomes
B. nucleolus
C. smooth ER
D. cilia
Motor proteins can be found "walking" along on to move chromosomes during mitosis.
A. Golgi cisternae
B. Rough ER
C. microtubules in the cytoskeleton
D. cristae membranes
Name the following:
Folded membranes inside mitochondria
Membrane sacs stacked up inside
chloroplasts where chlorophyll is found
Membrane sacs stacked like pancakes that
make up Golgi bodies
Dark spot in nucleus where RNA for
ribosomes is made

Small sac used for transport in

eukaryotic cells

Evidence for the Endosymbiotic Theo	ory shows the similarities between	bacteria and which two cell parts?
Tell three structures found in ALL c	ells.	
Name two organelles found in plant of	cells that are NOT seen in animal	cells.
EXPL	AIN how you can tell this cell is	<u>NOT</u> A PLANT CELL
EXPLAIN how you can tell this cell Insulin is a protein hormone made by stream to regulate blood sugar. Tracemembrane where it will be released.	cells in the pancreas and exporte	
Name the molecules found in the cel	→→ I walls of each of these organisms	
PLANT CELLS	BACTERIAL CELLS	FUNGAL CELLS
TELL TWO (2) WAYS EACH OF THE	FOLLOWING ARE DIFFERENT?	
	How tightly packed?	Type of cell found in?
CHROMOSOME		

CHROMATIN

	NUMBER	LENGTH	
CILIA			
CILIA			
FLAGELLA			