Name: Class:

Animal And Plant Cells

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1. Cells can either be prokaryotic or eukaryotic. Which of the following statements is INCORRECT with reference to Cells?

(A) Both prokaryotic and eukaryotic cells contain various parts called subcellular structures.

(B) Eukaryotes are organisms made up of eukaryotic cells

(C) Prokaryotes are organisms that are made up of prokaryotic cells.

(D) Eukaryotic cells are complex and include all animal and plant cells.

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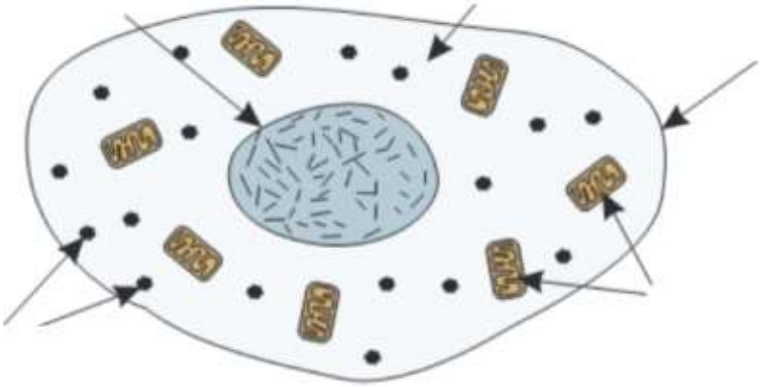
2.



Most animal cells have the following subcellular structures. Match the correct structure with its definition. (for 5 extra marks label the diagram with the corresponding letter, for example if you think that the ribosomes are the roughly square/rectangular type structures then label is the appropriate letter from a to e.)

a. __e__ Nucleus

b. __a__ Cytoplasm

c. __c__ Cell Membrane

d. __b__ Mitochondria

e. __d__ Ribosomes

a. A gel -like substance where most of the chemical reactions happen. Containing enzymes that control these chemical reactions

b. These are where most of the reactions for aerobic respiration take place. Respiration transfers energy that the cell needs to work.

c. Holds the cell together and controls what goes in and out.

d. These are where proteins are made in the cell

e. Contains genetic material that controls the activities of the cell.

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3. Plant cells usually have all of the bits that an animal cell has, plus a few extra. Which if any of the following would a plant cell contain?

(a) cell wall
(b) permanent vacuole
(c) chloroplasts
(d) chlorophyll

(A) None of the above
(B) (a) (c) and (d) only
(C) (a) only
(D) All of the above (that is a, b, c and d)

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4. (a) Microscopy is the study of very small (b) objects, such as (c) cells, using an instrument called a (d) microscope. There are (e) two main types that you will need to know about, the (f) electron microscope and the (g) light microscope.

microscope *objects* *light* *cells* *electron*
two *Microscopy*