**Cell Test Study Guide**

1. Label the following components of the cell using the word bank.

Nucleus, nuclear membrane, nuclear pore, chromatin, Smooth ER, Rough ER, ribosomes, vesicle, vacuole, golgi apparatus.

A

B

E

F

G

H

I

J

K

L

M

P

1. List the functions of the following organelles.

|  |  |  |
| --- | --- | --- |
| Structure | Function | Found in Plant Cells, Animal Cells or Both |
| Nucleus |  |  |
| Nucleolus |  |  |
| Mitochondria |  |  |
| Chloroplast |  |  |
| Endoplasmic reticulum |  |  |
| Golgi Body |  |  |
| Ribosomes |  |  |
| Vacuole |  |  |
| Lysosome |  |  |
| Cell wall |  |  |
| centriole |  |  |

1. Name three structures that are different in Plant and animal cells.
2. How do plant and animal cells compare in relation to size, shape and colour?
3. What is the name of the process that mitochondria use to produce energy for the cell?
4. What is the name of the process that chloroplasts use to produce food for the cell?
5. How would you compare the two processes lists in question 6 & 7?
6. Compare Prokaryotic Cells to Eukaryotic cells:

|  |  |  |
| --- | --- | --- |
|  | Prokaryotes | Eukaryotes |
| Size |  |  |
| Complexity |  |  |
| Nucleus |  |  |
| Membrane wrapped organelles |  |  |
| Genetic material |  |  |
| Cytoplasm |  |  |
| Cell membrane |  |  |
| Example |  |  |

1. Compare Bacteria and Viruses

|  |  |  |
| --- | --- | --- |
|  | Bacteria | Viruses |
| Size |  |  |
| Genetic material |  |  |
| example |  |  |