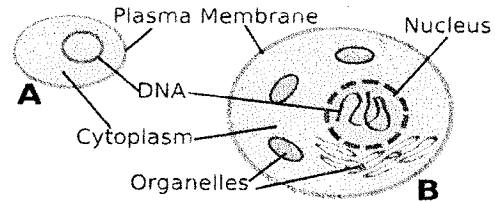


## I. Cells and DNA

- A. Every living organism is made of one or more cells containing nucleic acids in the form of
- B. All organisms (*except bacteria*) house their DNA in the \_\_\_\_\_ of every cell.
- C. 2 main types of cells:



- a. Prokaryotic =
- b. Eukaryotic =

## II. Why is DNA important?

- A. DNA contains the \_\_\_\_\_ for how the cells of all living things
- B. DNA contains genes = \_\_\_\_\_ on DNA
- C. Genes code for \_\_\_\_\_ . ( \_\_\_\_\_ )
- D. Proteins determine \_\_\_\_\_ . ( \_\_\_\_\_ )

## III. How is DNA important?

- A. DNA is \_\_\_\_\_ – nucleotides are the \_\_\_\_\_ ; just in different orders
- B. \_\_\_\_\_ (cures for diseases, understanding cancer and birth defects, genetic testing, production of desired products like Insulin)
- C. \_\_\_\_\_ (?) GMO's are genetically modified organisms \_\_\_\_\_ (usually food); taste better, grow larger
- D. CSI – DNA provides the \_\_\_\_\_ to prove a criminals' involvement in a crime