**Endocrine, Nervous, and Reproductive : Study Guide for Chapter 29 and 34**

**Nervous System**

1. How are the endocrine system and nervous system similar? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   1. How are they different? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Draw and label a neuron.
3. The Brain and spinal cord make up \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a type of supporting cell for the neuron.
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the gaps that are uncovered on the axon of a neuron that allow for messages to processes.
6. Nerve cells do not undergo Mitosis once they are fully developed, what is the term for this? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Endocrine System**

1. Hormones are released from \_\_\_\_\_\_\_\_ cells and enter the \_\_\_\_\_\_\_\_\_ where they are met with a response from a target cell or organ.
2. What are the 2 types of hormones?
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. which one forces its way into the cell and nucleus in order to make a protein.
3. Can you identify, by looking a diagram, where the major glands are located and hormones are produces.
4. What 4 hormones that we talked about have counteracting affects on each other? Like one raises and one lowers? What are their functions?
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the master gland.
6. Using a picture, can you tell me where glands are located, what each secretes, and the function?

**Reproductive System**

1. During puberty, testosterone has many effects on a male. Is testosterone a steroid or a non-steroid?
2. How many chromosomes are in a body cell (blood cell)? How many chromosomes are in a egg cell (gamete)?
3. Once an egg is released during ovulation, the corpus luteum secretes \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Most girls have a collection of 400,000 eggs in their ovaries \_\_\_\_\_\_\_\_\_ they are born.
5. During what menstrual cycle phase does ovulation occur? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What about the actually period? \_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the creation of offspring whose genes all come from one parent, without the fusion of egg and sperm.
7. Where do sperm mature?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Where to sperm receive add fluid to swim? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. What are the 3 layers of the blastocyst and what do each eventually become? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_