# **The Endocrine and Reproductive Systems Comprehension Check**

For questions 1-7, match each gland to its function:

|  |  |
| --- | --- |
| 1. Hypothalamus | a. a tiny gland found in the brain of humans that releases melatonin to aid in sleep |
| 2. Pituitary Gland | b. a gland that controls the functions of a wide variety of other glands; called the “master gland” |
| 3. Pineal Gland | c. a gland that helps the body fight sickness by turning white blood cells into T cells |
| 4. Thyroid | d. a small area in the brain that regulates the body’s levels of activity |
| 5. Parathyroid Gland | e. one of four glands that control calcium levels in the body |
| 6. Thymus | f. one of two glands that sit atop the kidneys and release many hormones to control how the body uses nutrients |
| 7. Adrenal Gland | g. a gland that controls the rate at which energy is converted and the rate at which cells use oxygen and nutrients |

1. Hypothalamus -
2. Pituitary Gland -
3. Pineal Gland -
4. Thyroid -
5. Parathyroid -
6. Thymus -
7. Adrenal Gland –
8. What is the endocrine system’s main purpose?
9. What happens to humans’ bodies when they experience puberty? What specifically happens to females? What specifically happens to males?
10. What is fertilization and what happens to an egg cell once it is fertilized?

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1. Hypothalamus - d
2. Pituitary Gland - b
3. Pineal Gland - a
4. Thyroid - g
5. Parathyroid - e
6. Thymus - c
7. Adrenal Gland – f
8. What is the endocrine system’s main purpose?
   1. The endocrine system works to coordinate the many structures and systems in our bodies including cells, tissues, organs, and organ systems. The endocrine system produces chemicals called hormones to adjust and control the body’s activities.
9. What happens to humans’ bodies when they experience puberty? What specifically happens to females? What specifically happens to males?
   1. During puberty, hormones flood the blood to encourage certain body parts to grow at a rapid rate. When this happens, though, the hormones can also cause emotions to run wild. Estrogen is released in females. Females also begin producing eggs as part of their monthly menstrual cycle. Males’ sperm develop tails called flagella during puberty.
10. What is fertilization and what happens to an egg cell once it is fertilized?
    1. Fertilization occurs when a male sperm cell and a female egg cell join. In humans, this occurs in the fallopian tube. Once fertilized, the egg cell travels to the uterus and attaches to the wall. It grows and divides to develop into an embryo before growing even more. After about 9 months of growing and developing, that single cell is ready to be born as a baby! This process of giving birth is called labor.