**Menstrual Cycle Summary Exercise - Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: December 6, 2017**

**The Menstrual Cycle -** *Using the word lists provided, complete each of the following paragraphs summarizing the menstrual cycle.*

**Word List:**

**embryonic discharged ovary implanted egg/ovum fertilized uterus**

During the menstrual cycle, an \_\_\_\_\_\_\_\_\_\_\_\_\_ develops and is released from an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. In addition, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is prepared to receive a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ egg. If the egg is fertilized, it is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the uterus and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ development begins. If an egg if not fertilized, it is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ along with the lining of the uterus.

**FOUR PHASES OF THE MENSTRUAL CYCLE WORD LIST**

**GnRH FSH growth hypothalamus enlarge mitosis**

**cells two high ovulation menstrual progesterone**

**fourteen yellow detach gonadotropin midway circulatory**

**vagina first one corpus luteum blood embryo**

**LH unfertilized seven anterior pituitary five low after**

**Fallopian estrogen three follicle tissue rises before**

**longest fertilized ten thicken uterine shortest large**

***MENSTRUATION***

When the level of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fall s below a certain level point, the lining of the uterus begins to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ wall. This tissue, along with blood and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ egg, are discharged through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This phase lasts about \_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_ days on average. A new cycle begins with the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ day of menstruation.

A few days after menstruation ends, level of estrogen in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are once again \_\_\_\_\_\_\_\_\_\_\_\_\_ enough to stimulate the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which produces a releasing hormone that acts on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gland. This gland starts to secrete \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_, and the menstrual cycle begins again.

***FOLLICULAR PHASE***

The follicular phase begins with the level of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the blood is relatively \_\_\_\_\_\_\_\_\_\_\_. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reacts by producing a releasing hormone, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that stimulates the anterior pituitary to secrete \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_. These two hormones travel through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system to the ovaries, where they cause a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to develop to maturity.

As the follicle develops, the \_\_\_\_\_\_\_\_\_\_\_\_ surrounding the egg \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and begin the produce increased amounts of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. As the follicle produces more and more of the hormone, the estrogen level in the blood \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dramatically and causes the lining of the uterus to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in preparation for receiving a fertilized egg. The development of an egg in this stage of the cycle take about \_\_\_\_\_\_\_\_\_\_\_\_ days.

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***OVULATION***

This is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ phase in the cycle and occurs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ through the cycle (lasts \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_ days). During this phase, the hypothalamus send a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ amount of the releasing hormone to the pituitary gland causing it to produce \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_. The release of these hormones has a dramatic effect on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (it ruptures and a mature egg is released into one of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_tubes.

***LUTEAL PHASE***

The luteal phase begin \_\_\_\_\_\_\_\_\_\_\_\_ the egg is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. As the egg moves through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ tube, the cells of the ruptured follicle undergo a change. The follicle turns \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and is now known as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This structure continues to release \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and begins to release \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. During the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ days of the cycle, rising levels estrogen levels stimulate cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_ development in the lining of the uterus. Progesterone adds the finishing touches by stimulating the growth and development of the blood supply and surrounding tissue.

During the first \_\_\_\_\_\_\_\_\_ days of the luteal phase, immediately following \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the changes an egg will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are the greatest. This is usually \_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_ days after the completion of the last \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cycle. If an egg is fertilized by a sperm, the fertilized egg will start to divide by the process of cell divisions know as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ continues to grow by repeated mitotic divisions. Within a few days of implantation, the uterus and the growing embryo will release hormones that keep the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ functioning for several week. This allows the lining of the uterus to nourish and protect the developing embryo.