**Introduction to Histology: Reproductive System answer sheet**

# Observations

Take a picture and insert it in the appropriate section below also record the total magnification needed to best view the object. Label all slides as indicated in the Lab Manual.

**Testis**

Magnification used:

**Mammal Ovary**

Magnification used

**Mammal Ovary Follicles**

Magnification used

**Human Uterus**

Magnification used

**Data table**

Fill out the following table based on the information listed in the lab manual.

|  |  |  |  |
| --- | --- | --- | --- |
| **Tissue type**  **Testis** | **Best magnification** | **Provide at least 2 unique identifying features of this tissue type** | **Describe how these tissues appear under the microscope** |
| **Septa** |  |  |  |
| **Interstitial cells** |  |  |  |
| **Spermatozoa** |  |  |  |
| **Seminiferous tubule** |  |  |  |
| **Blood vessel** |  |  |  |
| **Tissue type**  **Ovary** | **Best magnification** | **Provide at least 2 unique identifying features of this tissue type** | **Describe how these tissues appear under the microscope** |
| **Oocyte nuclei** |  |  |  |
| **Follicle** |  |  |  |
| **Antrum** |  |  |  |
| **Primary oocyte** |  |  |  |
| **Granulosa cells** |  |  |  |
| **Tissue type**  **Follicles** | **Best magnification** | **Provide at least 2 unique identifying features of this tissue type** | **Describe how these tissues appear under the microscope** |
| **Primary follicle** |  |  |  |
| **Secondary follicle** |  |  |  |
| **Tertiary follicle** |  |  |  |
| **Corpus luteum** |  |  |  |
| **Tissue type**  **Uterus** | **Best magnification** | **Provide at least 2 unique identifying features of this tissue type** | **Describe how these tissues appear under the microscope** |
| **Myometrium** |  |  |  |
| **Endometrium** |  |  |  |
| **Uterine gland** |  |  |  |
| **Columnar epithelium** |  |  |  |

# Questions

1. What is a granulosa cell? What is characteristic of a granulosa cell under the microscope? What is the function of the granulosa cell?
2. What are the differences in appearance on a slide between the endometrium and myometrium? What is the physiological reason for these differences?
3. How can we easily distinguish the spermatozoa in a slide of the testis? Why do they look the way that they do
4. What is different between a primary follicle and secondary follicle in a microscope slide? Why?
5. What tissue type is very abundant in the tunica albuginea?