**Laboratory Learning Outcomes and Objectives**

**Laboratory 14: VERTEBRATE REPRODUCTIVE SYSTEMS, DEVELOPMENT AND EMBRYOLOGY & REVIEW FOR PRACTICAL:**

*After completion of the laboratory session and with 70% accuracy, the student should be able to:*

**Male Reproductive System**

1. List the parts of the human male reproductive system and their functions.
2. List the constituents of semen and the source of each.
3. Describe the structure of the testis and the process of spermatogenesis.

**Female Reproductive System**

1. List the parts of the human female reproductive system and their functions.
2. Summarize the events of the ovarian and uterine cycles, and explain how these two cycles are regulated.

**Development and Embryology (if time permits as this is not covered in lecture)**

1. Early Embryonic Stages:
   1. Identify and compare the morula, blastula, gastrula and neurula in the models available
   2. Describe the development of the neural tube
2. Germ Layers
   1. Name the 3 germ layers and the major organs that develop from each
   2. Describe the significance of induction during development
3. Human Development
   1. Compare the development of humans to that of the other animals studied
4. Define embryonic and fetal development; identify human models as either embryo or fetuses.

**REVIEW:**

1. Identify and know ALL structures and their function(s) for the final practicum.