**LAB SESSION 11**

**All terminologies, concepts, and figures within each exercise are required (unless otherwise specified).**

**EXERCISE 15: EMBRYONIC DEVELOPMENT**

Learning Objectives: Following completion of this lab, the student will be able to:

- describe the process of implantation.
- describe how the three germ layers develop at gastrulation and into what adult structures each layer is destined to develop (see Table 1).
- describe the makeup and function of the embryonic membranes.
- describe the structure and function of the placenta.
- recognize a fetus in a 1st, 2nd, or 3rd trimester model.
- identify and explain the unique features of fetal circulation.
- describe the order of events in achieving fertilization and explain the variety of contraceptive methods.

*Note: You are not responsible for identification of the following:*

**Figure 4:** ectoderm; mesoderm; endoderm; extraembryonic mesoderm; intervillous space

**Figure 5:** ectoderm; mesoderm; endoderm; extraembryonic mesoderm; intervillous space; cellular trophoblast

**Figure 6:** maternal veins; maternal arteries; intervillous space; basal layer of endometrium; decidua basalis; decidua parietalis; decidual capsularis