

## SCIT 1408: Study Guide Outline of Laboratory Modules

### Lab #11

Note: This list of modules contains all the structures you are to know for lab quizzes and practical exams. It is also an excellent study guide for lecture exams.

\* *Starred items are found in the text book, but not in the lab manual.*

### **Module 38**

#### Spermatogenesis

- Spermatogonia
- Diploid
- Primary spermatocyte
- Meiotic cell division
- Secondary spermatocytes
- Haploid
- Spermatids

#### Oogenesis

- Germinal epithelium
- Oogonia
- Primary oocytes
- Primary follicle
- Secondary oocyte
- Polar body
- Secondary or developing follicle
- Mature or Graafian follicle
- Activation (sperm penetration)
- Ovum
  - \*Corona radiata
  - \*Zona pellucida
- Zygote

### **Module 39**

#### \*Menstrual Cycle

- \*Based on a 28-day cycle, know events of each day.
- \*Pituitary Hormones—name and know their effects
  - \*Follicle Stimulating Hormone (FSH)
  - \*Lutenizing Hormone (LH)
- \*Ovarian Hormones—name and know their effects
  - \*Estrogen
  - \*Progesterone
- \*Follicular Phase
- \*Luteal Phase
- \*Proliferative Phase
- \*Secretory Phase

- Ovulation
- \*Menarch
- \*Menses
- \*Menopause
- \*Corpus luteum
- \*Corpus albicans

#### **Module 40**

- \*Fertilization and Cleavage
  - \*Fertilization
  - \*Activation, stimulating second meiotic division of secondary oocyte
- \*Cleavage
  - \*Zygote
  - \*2-cell stage
  - \*4-cell stage
  - \*8-cell stage
  - \*Morula (16-32 cell stage)
  - \*Blastocyst
    - \*Inner cell mass
    - \*Trophoblast
    - \*Implantation
  - \*Human Chorionic Gonadotropin (HCG)
  - \*Placenta

#### **Module 41**

- \*Embryonic stage
  - \*Embryonic disc
  - \*Primary germ layers
    - \*Ectoderm
    - \*Endoderm
    - \*Mesoderm
  - \*Chorion
  - \*Lacuna
  - \*Amnion
  - \*Yolk sac
  - \*Allantois
  - \*Teratogens

#### **Module 42**

- \*Fetal stage
  - Fetus
  - Placenta
  - Amniochorionic membrane
  - Umbilical cord