**Review for Exam Six, BSC 182**

Please note that this review does not cover ALL of the material discussed in the lecture notes. *It is meant as a guide only*. Exam questions will come from the lecture material, not this review. Please be familiar with all of the topics we discussed in lecture.

1. Define
   1. Gonads
   2. Gametes
2. What are the accessory reproductive structures of the male?
3. Of the female?
4. What is the pathway through which the sperm travels to leave the body?
5. Scrotum
   1. Function
   2. Muscles
6. Testes
   1. What are the tunics?
   2. Describe the function of the seminiferous tubules
   3. How are the cells arranged within the seminiferous tubules?
   4. What’s the pathway out of the testis into the epididymis?
   5. What’s associated with the spermatic cord?
   6. What’s the gubernaculum?
7. Epididymis
   1. Function
   2. Regions
8. Vas Deferens
   1. Pathway from scrotum to urethra
9. Seminal Vesicle
   1. Type of secretion
   2. Function of secretion
10. Prostate gland
    1. Location
    2. Type of secretion
    3. Function of secretion
11. Bulbourethral gland
    1. Location
    2. Type of secretion
    3. Function of secretion
12. Penis
    1. Crura
    2. Shaft
    3. Erectile tissues
    4. Glans
    5. Urethra
13. Where is testosterone produced?
14. What do prostaglandins do?
15. What does relaxin do?
16. What does seminalplasmin do?
17. What does fibrinolysin do?
18. Discuss the events of the male sexual response, including the role of the autonomic nervous system
19. What are the events of meiosis that relate to spermatogenesis?
20. Why is there a mitotic division that precedes spermatogenesis?
21. What are the hormones involved with the Brain-Testicular Axis?
    1. Hypothalamus
    2. Anterior Pituitary
    3. Testes
       1. Interstitial cells
       2. Sustentacular Cells
    4. What is inhibin?
22. What are the male secondary sex characteristics
23. What are the accessory structures of the female reproductive system?
24. Ovaries
    1. Location
    2. Blood supply
    3. Ligaments
    4. Regions
       1. Medulla
       2. Cortex
    5. What is a follicle?
       1. Primordial follicle
       2. Primary follicle
       3. Secondary follicle
       4. Graafian follicle
    6. What is (and functions)
       1. Corpus Luteum
       2. Corpus Albicans
    7. What are the changes that take place with the ovarian cycle
25. Fallopian tubes
    1. Alternate names
    2. Regions
    3. Function
    4. Movement through the tubes
26. Uterus
    1. Location
    2. Regions
    3. Blood supply
    4. Layers
    5. Changes that take place with the menstrual cycle
27. Vagina
    1. Location
    2. pH
    3. Hymen
    4. Fornix
28. Vulva
    1. Mons Pubis
    2. Labia Majora
       1. Homologous to what other structure?
    3. Labia Minora
       1. Homologous to what other structure?
    4. Clitoris
       1. Location
       2. Erectile tissue
       3. Homologous to what other structure?
    5. Vestibular Glands
       1. Location
       2. Function
       3. Homologous to what other structure?
    6. Perineum
       1. Location
29. Anatomy of the breast
    1. Pathway from mammary glands to nipple
    2. Mammary gland growth triggered by which hormone?
    3. Production of milk triggered by which hormone?
    4. Release of milk triggered by which hormone?
30. Risk factors for breast cancer
31. Treatment options
32. How does oogenesis compare to spermatogenesis?
33. Describe oogenesis
34. What are the polar bodies?
35. At what developmental stage is the oocyte when it’s ovulated?
36. What are the stages of the ovarian cycle?
    1. Follicular phase
       1. Time frame
       2. Events
       3. Hormone levels
    2. Ovulation
       1. Time frame
       2. Events
       3. Triggered by which hormone
    3. Luteal phase
       1. Time frame
       2. Events
       3. Hormone levels
37. What are the stages of the menstrual cycle
    * 1. Compare the ovarian cycle to the menstrual cycle
38. What are the secondary sex characteristics of the female?
39. Discuss the events of the female sexual response, including the roles of the autonomic nervous system.
40. Sexually Transmitted diseases
    1. Causes (bacterial, viral, etc.)
    2. Symptoms
       1. Stages
       2. appearance
    3. Treatment
41. Endometriosis
    1. Cause
    2. Symptoms
42. PMS
    1. Symptoms
    2. Time frame for events
43. Dysmenorrhea
    1. Symptoms
    2. Time frame for events
44. Compare embryological development of male and female
45. Changes that occur during menopause
    1. Cause of menopause
    2. Hormone levels
46. Pregnancy
    1. Define
       1. Capacitation
       2. Zona pellucida
       3. Conceptus
       4. Preembryo
       5. Embryo
       6. Fetus
       7. Zygote
       8. Blastomere
       9. Morula
       10. Blastocyst
       11. Trophoblasts
           1. Cytotrophoblast
           2. Syncytiotrophoblast
       12. Chorion
       13. Amnion
       14. Yolk sac
       15. Allantois
       16. Gastrulation
       17. Ectoderm
       18. Mesoderm
       19. Endoderm
       20. Parturition
    2. What hormones are associated with pregnancy
    3. Stages of labor
47. Apgar scores
48. Lactation
    1. Hormones involved with
       1. Growth of mammary glands
       2. Production of milk
       3. Release of milk
    2. Advantages













