BSC 1005: Life Science

Exam 5 Review

Fill this review out in detail as a study guide for the Exam. Use your class notes, power point slides and textbook to help you. This is a general guide and does not necessarily include every detail that could be covered on the exam. Be sure to review your notes in addition to this study guide when preparing for the exam!

**Chapter 11: Tissues, Organs and Organ Systems**

* Four types of tissue, where they are found and what they do
  + **Epithelial**
  + **Connective: loose, adipose, blood, fibrous, cartilage, bone**
  + **Muscle: skeletal, cardiac, smooth**
  + **Nervous Tissue**
* **Tissue donation**
* **Organs** and **organ systems**
* The **liver**: structure, location, function
* The **digestive system**: the components and their function

**Chapter 12: Respiratory, Circulatory, Excretory Systems**

* What is **ETS** and **Passive Smoking**, **Carbon monoxide** and **particulates**
* What are the parts of the **respiratory system**
* How do we **inhale**/**exhale**
* Why is **surface area** important in the **alveoli** (gas exchange, what gases?)
* How does **gas exchange** happen?
* **Hemoglobin**
* Lungs defense: cough, cilia, mucous
* **Bronchitis**, **Asthma**
* Smoking damage to alveoli
* Carcinogen, cancers, mutation
* **Circulatory System: 3 components**
  + **Blood**: liquid (plasma), red blood cells, white blood cells, platelets, stem cells
  + **Heart:** chambers/pumps, valves
  + **Vascular System:** arteries, capillaries, veins
* **Nicotine:** cholesterol, **atherosclerosis**, blood clots (**strokes** and **heart attacks**)
* **Excretory System:** **kidney (nephron), ureters, bladder, urethra**

**Chapter 13: Reproductive and Developmental Biology**

* Know difference between asexual and sexual reproduction.
* **Know all the bold prints.**
* **Internal fertilization VS Internal fertilization**
* Male and female reproductive anatomy
* Sexually transmitted diseases: caused by viruses, bacteria, protozoans, and fungi
* Spermatogenesis and Oogenesis, where it takes place, where the route of gametes, where sperms are stored, etc.
* Ovarian cycle and menstrual cycle, understand the change of hormone level involved
* Birth control method
* Pregnancy and childbirth