Biology 12 Chapter 11.1

**TYPES OF TISSUES**

***Read pages 198-204 and answer the following questions:***

1. Starting with the smallest category, list the 4 biological levels of organization.
2. List the four main types of tissues.
3. How are cancers classified? Give an example of how they are named.
4. Describe the various functions of epithelial tissue located on the external surface.
5. Describe the various functions of epithelial tissue located on the internal surface.
6. What are 2 ways that epithelial tissue is classified?
7. Describe the following types of epithelium in a chart as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Type of epithelium  | Shape  | Simple or Stratified | Location | Function | Sketch |
| Squamous epithelium (simple) |  |  |  |  |  |
| Squamous epithelium (stratified) |  |  |  |  |  |
| Pseudostratified columnar epithelium |  |  |  |  |  |
| Cuboidal epithelium |  |  |  |  |  |
| Columnar epithelium |  |  |  |  |  |

1. What is a basement membrane? What is it made of and what is its function?
2. What are an exocrine and an endocrine gland?
3. Describe (sketch) the 3 types of junctions between cells. Describe their function and if possible give an example of a location in the body.
4. What is the general function of connective tissue?
5. What is the matrix of connective tissue? What are the 3 possible fibers that make up a matrix?
6. Create a chart to compare 7 types of connective tissue:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Function | Location | Structure (Fibers/ cells) |
| Loose Fibrous Connective Tissue |  |  |  |
| Dense Fibrous Connective Tissue |  |  |  |
| Adipose Tissue |  |  |  |
| Reticular Connective Tissue |  |  |  |
| Hyaline Cartilage |  |  |  |
| Elastic Cartilage |  |  |  |
| Fibrocartilage |  |  |  |
| Compact Bone |  |  |  |
| Spongy Bone |  |  |  |
| Blood |  |  |  |

1. Name and describe the four components of blood.
2. How does blood help maintain homeostasis?
3. Name three types of muscle tissue, their structure, function and location.
4. Where is nervous tissue found?
5. What are the 3 parts of a neuron (specialized cell)?
6. What are the 3 functions of the nervous system?
7. What are neuroglia and what are the 3 types?