Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_

**Accelerated Biology**

**Digestion and Excretion Test Review**

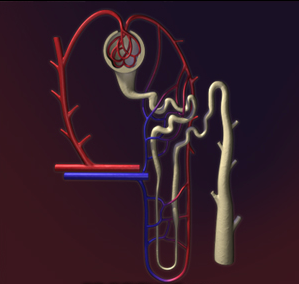
1. Fill in the following chart.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nutrient | Function in the Body | Good Food Sources | Caloric Value | Digested Into  (monomer) |
| Carbohydrate |  |  |  |  |
| Lipids |  |  |  |  |
| Proteins |  |  |  |  |
| Nucleic Acids |  |  |  |  |

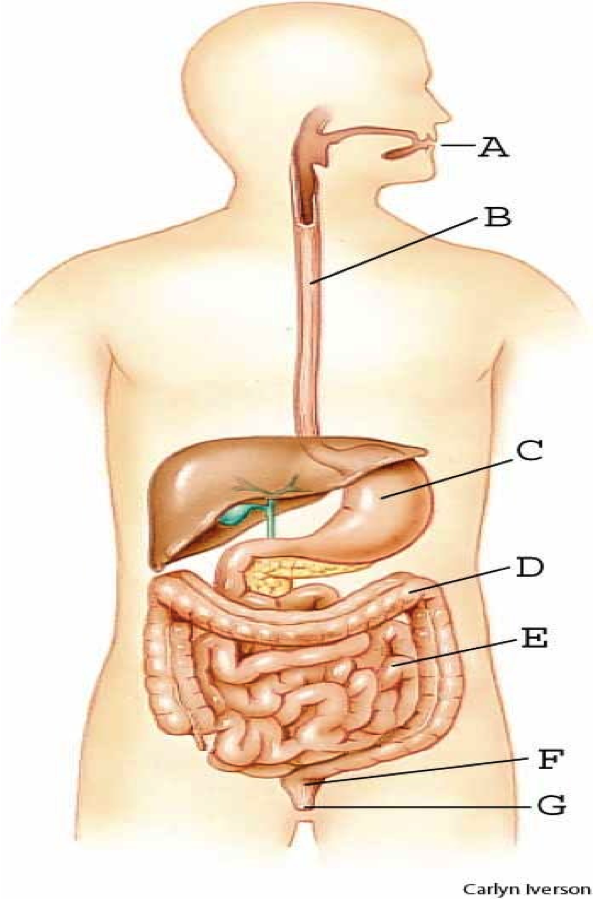
1. Explain the relationship between Calories, calories and kilocalories. How are they the same? How are they different?
2. List the order of the organs that food passes through as it goes through the digestive system.
3. Fill in the following chart:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Macromolecule | Place(s) digested | Enzyme(s)/secretions that digest it | Product of digestion  (monomer) | Place where  absorbed |
| Carbohydrate  (polysaccharides) |  |  |  |  |
| Carbohydrate  (disaccharides) |  |  |  |  |
| Protein |  |  |  |  |
| Lipids |  |  |  |  |
| Nucleic Acids |  |  |  |  |

1. Why do we need to eat food? (Why do we need nutrients?)
2. Name the 3 organs of the digestive system that food does not pass through. What is the function of each?
3. Where is bile produced? Where is it stored? What is its function?
4. What is fiber made of? Why is it beneficial?
5. Describe anorexia and bulimia. Why is each dangerous?
6. What is the meaning of the word homeostasis?
7. Name 3 homeostatic functions of the kidneys.
8. Sketch the urinary system. Include the bladder, urethra, ureters, and kidneys.
9. Label the nephron below. Include Bowman’s capsule, glomerulus, loop of Henle, distal tubule, and collecting duct.



1. What is filtration? Where does it take place?
2. Name some substances that are removed from the blood during the process of filtration.
3. What is reabsorption? Where does it take place?
4. What is secretion? Where does it take place?
5. What substances are present in a healthy person’s urine? What substances should not be present in a healthy person’s urine?
6. What happens when the kidneys fail to function?
7. Label each of the structures on the diagram below. State what occurs in each one. Be specific as far as what nutrients are digested and the enzymes/secretions produced. If no digestion occurs, then state the function of the structure.



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