# Chapter 21: Respiration and Digestion (20 pts)

## 21A

21.1-1: Name, in order, the ten structures by or through which a molecule of air passes as it enters the nose and passes to the capillaries in the lungs.

21.1-2: Describe how the mucous membranes lining the respiratory system deal with foreign particles.

21.2-1: Describe how the diaphragm, ribs, and lungs function during a) inspiration and b) expiration. In

21.2-3: How are a) oxygen and b) carbon dioxide transported in the blood?

## 21B

21.3-1: Describe what aspect of respiration the following structures control:

a) respiratory center-

b) inspiratory center-

c) expiratory center-

d) stretch receptors-

21.4-1: What are the four main functions of the digestive system?

21.4-7: Which organ of the digestive system is the major site of digestion/absorption, and what structures inside it aid these processes?

21.4-8: List seven liver functions:

21.5-1: List the six basic nutritional substances normally found in food:

21.5-2: Describe the digestion process for a)carbohydrates, b) fats, c) proteins.

21.5-4: What is the difference between a mineral and a vitamin?

## Vocabulary 21 (15pts)

Parts of respiration and their functions: Pharynx, Larynx, Epiglottis, Trachea, Bronchus, Alveoli

Inspiration

Expiration

Hemoglobin

Ingestion

Digestion

Egestion

Absorption

Alimentary canal

Peristalsis

Salivary Glands

Organs of digestion and their functions: Esophagus, Stomach, Small intestine/Villi, Liver, Gallbladder, Pancreas, Large intestine

Mineral

Vitamin

Calorie