Internal Systems Review

Digestive System

- Overall function how does this system support the life of a cell?
- Structure and function of organs
- Oral Cavity
- Peristalsis

Respiratory System

- Overall function how does this system support the life of a cell?
- Structure and function of organs

Circulatory System

- Overall function how does this system support the life of a cell?
- structure and function of organs
- blood vessels (arteries/veins/capillaries)
- systemic and pulmonary circulation

- Stages of digestion (ingestion/digestion/absorption/egestion)
- Villi passive and active transport
- Specific enzymes
- Mechanics of breathing volume and pressure changes
- Alveoli diffusion of gases
- heart structure
- capillaries exchange of nutrients and gases
- blood, blood pressure, heart rate
- 1. Support the following statement. "*Individual systems interact to sustain the life of individual cells in your body.*" Your answer should address why we need to eat, and why we need to breathe, and how individual system work together to accomplish that.
- 2. Using the rubric below as a guide choose one of the following questions to answer. Your answer should start by clearly stating the overall function for each of the systems you are describing. (10 marks)
- a) Describe the process that **cells** in your body use to receive nutrients from your food starting from the mouth. Make sure to include **and describe** any key structures and their functions. Your answer should include key enzymes, organs and pathways that help this system function.
- b) Describe the process that cells in your body use to exchange gases with the outside environment. Make sure to include and describe any key structures and their functions. Your answer should also reference the mechanics of breathing (inhaling and exhaling) in your response.

0-4	5-6	6-7	7-8	8-10
 Response is incomplete or fails to meet the standards required for a pass 	 Response demonstrates a limited understanding of the question Response does not incorporate specific facts and content from the course material 	 Response demonstrates a moderate understanding of the question Response poorly incorporates specific facts and content from the course material 	 Response demonstrates a good understanding of the question Response does a good job of incorporating specific facts and content from outside sources. 	 Response demonstrates an excellent understanding of the question Response does an excellent job of incorporating specific facts and content from outside sources
 Response is incomplete or fails to meet the standards required for a pass 	 Response demonstrates limited organization and flow 	 Response demonstrates moderate organization and flow 	 Response demonstrates good organization and flow 	 Response demonstrates excellent organization and flow

