

Final Exam Outline (like the Mocks, but without the Urinary or Reproductive Systems)

67 Multiple Choice

23 marks worth of Written. 6 questions (1 from each section shown below).

Cell Bio:

- Water (Structure & Function/Roles)
- Acids, Bases, Buffers
- Biological Molecules: Carbs, Proteins, Lipids, Nucleic Acids
- Cell Parts (Structure/Function... cells bring the correct gear for their job)

Cell Processes:

- Membrane Transport: Diffusion, Osmosis, Facilitated Transport, Active Transport, Exo and Endocytosis
- Protein Synthesis: Transcription, Translation, No specific genetic disorder stuff
- Enzymes: Terminology, Factors affecting rates (familiarize yourself with graphs)

Digestive System:

- Anatomy & Function
- Swallowing & Peristalsis... throughout the digestive tract
- Glandular Excretions (Salivary, gastric, pancreatic, liver, intestinal)
- Digestion (Know the enzymes chart)
- Absorption (Know the mechanism and the destination of each nutrient group)
- There will be no hormonal control questions

Circulatory System:

- Vessel types: structure/function/
- Circuits: Pulmonary vs. Systemic + Oddball circuits.
- Pressure/Velocity relationship
- Composition of blood
- Capillary Exchange
- Heart Structure and Function
- Cardiac Cycle (chamber contractions and valve sounds) relate to blood pressure.
- Control of the heartbeat
- There will be no Electrocardiogram questions

Respiratory System:

- Anatomy & Function
- There will be few lung volume questions
- Mechanics of breathing is important

- Respiration: External vs Internal. You will need to know the reactions.
- Hemoglobin's affinity for oxygen changes with temp and pH

Nervous System:

- Parts & Functions of a neuron
- How does a neuron work (Action Potential)
- How does a neuron communicate to another neuron (Synaptic Transmission)
- The Reflex Arc
- Autonomic Control with cranial and spinal nerves