*Exam Checklist*

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| *Need to know* | *Content* | *Yes/No* |
| *Heart valves: Function and location* |  |  |
| *How diet affects the circulatory system* |  |  |
| *Structure and function of the types of tissues* |  |  |
| *Contrast arteries and veins (via explanation and illustration)* |  |  |
| *Explain the mechanics of breathing (inspiration and expiration)* |  |  |
| *Labelling the respiratory tract and knowing the function of each* |  |  |
| *Different types of cartilage and where they are located in the body (examples) ie Trachea is hyaline* |  |  |
| *Description of muscle tone and why it is important* |  |  |
| *Explanation of agnostics and antagonist muscles* |  |  |
| *Explanation of anabolic and catabolic* |  |  |
| *Function and structure of tendons and ligaments* |  |  |
| *Differentiate between metabolism and digestion* |  |  |
| *The microscopic structure of the stomach (the layers)* |  |  |
| *The functions of the stomach in detail*  *The mechanical digestion of the stomach (what muscles is it made from)* |  |  |
| *The role of the pancreas (what are enzymes are secreted)* |  |  |
| *Explanation of phospholipids and why they are hydrophobic tails and hydrophilic heads* |  |  |
| *Description of why it is referred to as ‘fluid mosaic’* |  |  |
| *Explanation of why wastes needs to be excreted from cells* |  |  |
| *What does sweat glands excrete* |  |  |
| *Why control variables are important* |  |  |
| *Explanation of bone cells (osteocytes,* ***osteoblast****, osteogenic cell and osteoclast) and how bone cells communicate* |  |  |
| *The difference between spongy and compact bone* |  |  |
| *Types of joint (e.g. hinge joint) and types of movements (e.g flexion/extension)* |  |  |
| *Explain the structure of synovial joints and how it keeps joints healthy* |  |  |
| *Explain an isotonic solution within the extracelluar fluid (how it affects cells)* |  |  |
| *Explain why lymph nodes become swollen* |  |  |
| *Differentiate between the lymphatic and circulatory system* |  |  |
| *The molecular structure of proteins and how cells organelles and proteins are involved* |  |  |
| *An in depth explanation of aerobic and anaerobic respiration* |  |  |
| *Explanation of formed elements and their functions (different blood systems)* |  |  |
| *An in depth explanation of how absorption occurs in the small intestine* |  |  |