*Exam Checklist*

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| *Need to know* | *Content* | *Yes/No* |
| *Define osteoarthritis and osteoporosis and list symptoms of each* |  |  |
| *Define cell organelle functions* |  |  |
| *Illustrate the cell membrane as the ‘fluid mosaic’ model* |  |  |
| *What would happen if the Mitochondria functioned ineffectively* |  |  |
| *Explain the ‘lock and key’ analogy – how enzymes react* |  |  |
| *Explain how enzyme inhibitors work* |  |  |
| *Describe the 3 layers of muscles found in the stomach and their role* |  |  |
| *Explain diarrhoea and why it happens* |  |  |
| *Location of Bile and how it is produced* |  |  |
| *Labelling of the respiratory tract* |  |  |
| *Describing the mechanics of inspiration and expiration* |  |  |
| *Differentiate between metabolism and digestion* |  |  |
| *Describe diffusion of oxygen and carbon dioxide between alveoli and blood capillaries* |  |  |
| *Explanation of blood types and how blood transfusion occur* |  |  |
| *Definition of agglutination* |  |  |
| *How carbon dioxide and oxygen are transported in the blood* |  |  |
| *Why deamination occurs* |  |  |
| *Explanation of transport mechanisms and examples of each* |  |  |
| *Describe the sliding filament theory “why does the muscle fibre remain the same length”* |  |  |
| *Outline the structure of cardiac muscle* |  |  |
| *Description of blood vessels – arteries and veins* |  |  |
| *How do red blood cell’s structure suit their function* |  |  |
| *Explanation of anabolic and catabolic reactions and provide examples* |  |  |
| *Explain and provide examples of mechanical and chemical digestion along the digestive tract* |  |  |
| *Explain the structure of the small intestine and describe what would happen if the lining is damaged* |  |  |
| *Explain how structure of the lungs are suited for their function* |  |  |
| *List symptoms of lung diseases* |  |  |
| *Describe the role of nephrons in the kidney’s and explain what occurs at each region* |  |  |
| *Explain the macroscopic structure of a long bone and detail its functions* |  |  |