**IGCSE Specification Questions Chapter 1 – Life Processes**

If you can answer these questions well then you have learnt the first part of the IGCSE syllabus!

1. **What are the 8 things that living organisms are expected to do if they are to be considered ‘alive’?** .....................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................................(8 Marks)
2. **Draw and label a plant and an animal cell in the spaces below:**

Plant Cell

Animal Cell

(7 Marks)

(4 Marks)

1. **Complete the table below by including descriptions of the functions of cell organelles:**

|  |  |  |
| --- | --- | --- |
| **Organelle** | **Plant, Animal or both?** | **Function** |
| Nucleus |  |  |
| Cytoplasm |  |  |
| Cell Membrane |  |  |
| Cell Wall |  |  |
| Chloroplast |  |  |
| Vacuole |  |  |
| Mitochondria |  |  |

**EXTENSION**

**(Read ahead in the book to help you answer the following)**

1. **What is an enzyme? Include evidence of understanding of their role within the body and their importance:**

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1. **List three of the factors that affect how quickly an enzyme works. What happens if these conditions are not maintained?**

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1. **Describe the process of Osmosis. How is this mechanism different from Diffusion? Give some examples of where these processes are used in Nature:**

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1. **What is Active Transport? How is it different from the processes named above?**

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