

## B1: CELL STRUCTURE AND FUNCTION

### Cell theory:

- cells are the fundamental unit of structure, function and organisation in living organisms.
- cells can only develop from existing cells.
- plant and animal tissue are made from cells. Cells are the basic unit of life.

### Prokaryotic cells:

- prokaryotic cells are single celled organisms.
- have simple structures.
- have no membrane bound organelles or nucleus.
- have circular DNA.

### Eukaryotic cells:

- make up multicellular organisms such as plants and animals.
- they are complex cells.
- do have nucleus and membrane bound organelles.
- have linear DNA.

### Structure and function of animal cell components

<b>Organelle</b>	<b>Description of structure</b>	<b>Function</b>
Plasma membrane	Composed of a phospholipid bilayer with proteins embedded in the layer	The membrane is selectively permeable. It regulates the transport in and out of cells.
Cytoplasm	Thick semi transparent fluid	Maintains the cells shape and stores chemicals needed for reactions
Nucleus	Largest organelle surrounded by a nuclear envelope which has nuclear pores which allow movement of molecules through it	Controls cellular activity, contains chromatin and houses DNA and proteins from which the instruction of making protein comes
Nucleolus	Dense spherical structure in the middle of the nucleus	Makes RNA and ribosomes
Rough endoplasmic reticulum	Network of membrane flattened sacs studded with ribosomes	Protein synthesis takes place on the ribosomes and newly synthesised proteins are transported to the golgi apparatus.
Smooth endoplasmic	Network of membrane	Responsible for synthesis

# Pearson Cell Structure Function D Answers

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**Pearson Cell Structure Function D Answers:**

## **Pearson Cell Structure Function D Answers** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Pearson Cell Structure Function D Answers**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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