

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

Organelle	Description of structure	Function
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

**Thirumalaisamy P.
Velavancorresponding**



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