

A2 Biology

Revision Questions & Answers

1. Define the following terms: (2 marks)	
1.1. A cell	A cell is the basic unit of structure and function in all living organisms. It is a small, enclosed space containing various organelles and molecules.
1.2. A tissue	A tissue is a group of cells that are specialized to perform a specific function. They are often found in the same location and are connected by intercellular material.
1.3. An organ	An organ is a structure made up of different tissues that work together to perform a specific function. Examples include the heart, liver, and stomach.
1.4. A system	A system is a group of organs that work together to perform a specific function. Examples include the digestive system, circulatory system, and respiratory system.

2. Explain the following processes: (2 marks)	
2.1. Diffusion	Diffusion is the movement of particles from an area of high concentration to an area of low concentration. It occurs in all living organisms and is essential for the transport of substances.
2.2. Osmosis	Osmosis is the movement of water molecules from an area of high water potential to an area of low water potential. It is a special type of diffusion that occurs across a semi-permeable membrane.
2.3. Active transport	Active transport is the movement of particles from an area of low concentration to an area of high concentration. This process requires energy in the form of ATP.
2.4. Passive transport	Passive transport is the movement of particles from an area of high concentration to an area of low concentration. This process does not require energy.

3. Describe the following structures: (2 marks)	
3.1. Mitochondrion	A mitochondrion is a small, bean-shaped organelle found in most eukaryotic cells. It is the site of cellular respiration, where energy is produced from food molecules.
3.2. Chloroplast	A chloroplast is a green, oval-shaped organelle found in plant cells and some algae. It is the site of photosynthesis, where light energy is used to produce glucose and oxygen.
3.3. Nucleus	The nucleus is a large, spherical organelle found in the center of a cell. It contains the cell's genetic material (DNA) and controls the cell's activities.
3.4. Cytoplasm	The cytoplasm is the fluid-filled space inside a cell, excluding the nucleus. It contains various organelles and molecules, and is the site of many cellular processes.

4. Explain the following processes: (2 marks)	
4.1. Photosynthesis	Photosynthesis is the process by which plants and some other organisms use light energy to produce glucose and oxygen from carbon dioxide and water. It occurs in the chloroplasts of plant cells.
4.2. Cellular respiration	Cellular respiration is the process by which cells break down glucose and other organic molecules to produce energy in the form of ATP. It occurs in the mitochondria of eukaryotic cells.
4.3. Transpiration	Transpiration is the process by which water moves from the roots of a plant to the leaves, where it is lost to the atmosphere as water vapor. It is driven by the evaporation of water from the leaves.
4.4. Osmosis	Osmosis is the movement of water molecules from an area of high water potential to an area of low water potential. It is a special type of diffusion that occurs across a semi-permeable membrane.

Nelson Thornesqa A2 Biology Exam Question Answers

James Napier



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