

Question 1, Sample A – 3 Points

List and describe three processes used by cells to control the movement of substances across the cell membrane.

- Osmosis is a process in which water travels along a selectively permeable membrane.
- Diffusion is the process a cell uses in which particles move from an area of high concentration to an area of low concentration.
- Active transport is a process in which the cell uses energy to move something from one part of the cell to another.

Notes:

1 point: Osmosis... water travels along a selectively permeable membrane

1 point: Diffusion... move from an area of high concentration to an area of low concentration

1 point: Active transport... uses energy

Question 1, Sample B – 3 Points

List and describe three processes used by cells to control the movement of substances across the cell membrane.

Osmosis; The diffusion of water across the cell membrane.

Active transport; Movement across the cell membrane against the concentration gradient.

Passive transport; Movement across the cell membrane without the use of energy.

Notes:

1 point: Osmosis... diffusion of water

1 point: Active transport... against the concentration gradient

1 point: Passive transport... without the use of energy

Question 1, Sample C – 2 Points

List and describe three processes used by cells to control the movement of substances across the cell membrane.

The processes that cells use to control the movement of substances across the cell membrane are all types of transports. They can use active transport, facilitated transport, and passive transport. Active transport is when the cell uses energy to move something in or out of the cell. Passive transport is the opposite of active transport as it does not use any energy to control what is entering and leaving the cell. Facilitated transport is when the cell carries the larger things in and out of the cell.

Notes:

1 point: Active transport...cell uses energy

1 point: Passive transport...does not use any energy

0 points: Facilitated transport...Explanation is incomplete

Question 1, Sample D – 1 Point

List and describe three processes used by cells to control the movement of substances across the cell membrane.

channel proteins which lets certain things in. Trasport proteins open and close and help transport certain things and diffusion brings things across the membrane.

Notes:

1 point: channel proteins...open and close and help transport certain things and diffusion brings things across the membrane

Question 1, Sample F – 0 Points

List and describe three processes used by cells to control the movement of substances across the cell membrane.

- 1) OSMOSIS ONLY ALLOWS A CERTIAN AMOUNT OF WATER TO COLLECT IN THE CELL AT ONE TIME.
- 2) SELECTIVE MEMBRANE
- 3) PEREALBLE MEMBRANE

Notes:

0 points: OSMOSIS...Incorrect explanation.

0 points: SELECTIVE MEMBRANE...No explanation provided.