

(b) Cells contain a large number of membrane-bound vesicles. Many of these vesicles transport substances between organelles.

(i) Outline how the vesicles are moved from one organelle to another.

.....
cytoskeleton / microtubule / microfilament ;
provide, pathways / tracks, (for movement)
(vesicle) moves along microfilaments / microtubule ;
microtubules, extended / broken down ;
uses, ATP / (metabolic) energy ;
AVP ; [2]

Cells in the pancreas secrete proteins such as the enzymes pancreatic amylase and protease.

Describe how these extracellular enzymes are secreted from the cells.

.....
.... exocytosis ;
.... vesicle fuses / merges ;
.... (with), cell surface / plasma, membrane ;
.... discharging / releasing, enzyme / contents (to exterior) ;
..... [2]

(d) State **one** way in which the products of **meiosis** are different from the products of nuclear division in meristematic tissue.

in meiosis

.....
(cells produced are) not genetically identical ;
.....

..... one set of chromosomes / haploid ;

(they are) gametes ;

four cells produced ;
.....

[1]

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