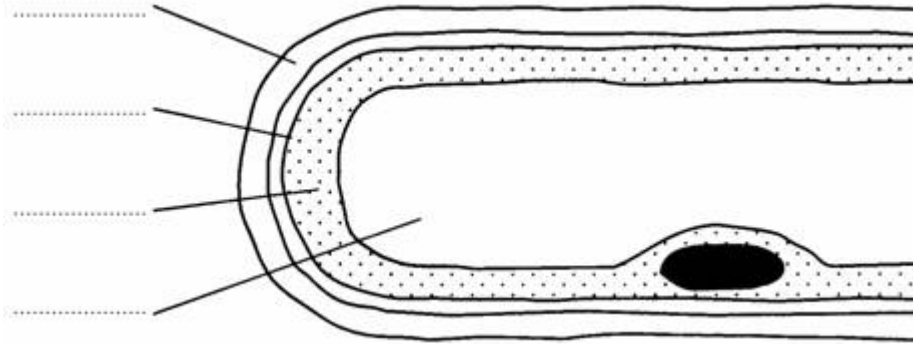


1

The drawing shows part of a root hair cell.

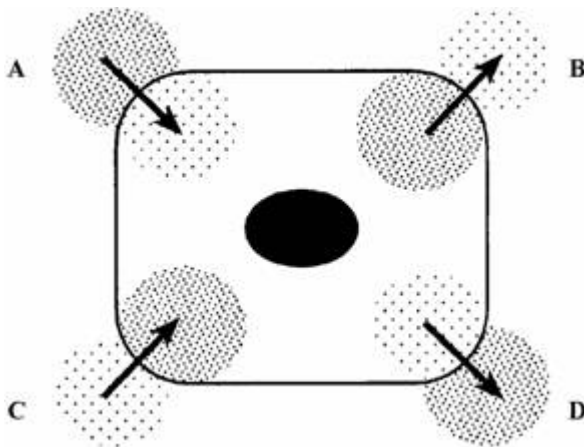


(a) Use words from the list to label the parts of the root hair cell.

cell membrane cell wall cytoplasm nucleus vacuole

(4)

(b) The diagram shows four ways in which molecules may move into and out of a cell. The dots show the concentration of molecules.



The cell is respiring aerobically.
Which arrow, **A**, **B**, **C** or **D** represents:

(i) movement of oxygen molecules;

(ii) movement of carbon dioxide molecules?

(2)

(c) Name the process by which these gases move into and out of the cell.

.....

(1)

(Total 7 marks)

Mark schemes

1

- (a) (cell) wall
(cell) membrane
cytoplasm
vacuole

for 1 mark each

4

- (b) (i) A

- (ii) B

for 1 mark each

2

- (c) diffusion (reject osmosis)

for 1 mark

1

[7]