

QUESTION

1. The following diagram shows the structure of a cell wall. The cell wall is made of cellulose, which is a polysaccharide. The cellulose molecules are arranged in a regular, repeating pattern. The cellulose molecules are made of glucose units, which are linked together by hydrogen bonds. The hydrogen bonds are shown as dashed lines between the oxygen atoms of one glucose unit and the hydrogen atoms of another glucose unit. The cellulose molecules are arranged in a way that they are able to form a strong, rigid structure. This structure is able to withstand the pressure of water and other substances that are outside the cell. The cellulose molecules are also able to form a network that is able to trap water and other substances. This network is able to prevent the cell from losing water and other substances. The cellulose molecules are also able to form a barrier that is able to prevent the entry of harmful substances into the cell. This barrier is able to protect the cell from infection and other damage.

2. The following diagram shows the structure of a cell membrane. The cell membrane is made of phospholipids, which are arranged in a bilayer. The phospholipids are made of a hydrophilic head and a hydrophobic tail. The hydrophilic heads are facing outwards, towards the water, and the hydrophobic tails are facing inwards, away from the water. The phospholipids are arranged in a way that they are able to form a strong, flexible barrier. This barrier is able to prevent the entry of harmful substances into the cell. The phospholipids are also able to form a network that is able to trap water and other substances. This network is able to prevent the cell from losing water and other substances. The phospholipids are also able to form a barrier that is able to prevent the entry of harmful substances into the cell. This barrier is able to protect the cell from infection and other damage.



3. The following diagram shows the structure of a cell. The cell is made of a cell wall, a cell membrane, and cytoplasm. The cell wall is made of cellulose, which is a polysaccharide. The cell membrane is made of phospholipids, which are arranged in a bilayer. The cytoplasm is made of water and other substances. The cell is able to withstand the pressure of water and other substances that are outside the cell. The cell is also able to trap water and other substances. The cell is able to prevent the entry of harmful substances into the cell. The cell is able to protect itself from infection and other damage.