QUESTION 1

Which of the following is **NOT** a function of plasma membrane?

- It covers the cell to keep it warm. ✓
- It controls what enters and leaves the cell.
- It prevents the cytoplasm from mixing with the outer environment of the cell.
- It keeps the organelles from leaving the cell.

QUESTION 2

Which of the following structures can be functionally connected to ribosomes?

- mitochondria
- Golgi apparatus
- endoplasmic reticulum ✓
- plasma membrane

QUESTION 3

All cellular functions occur within the cytoplasm

if the cell is prokaryotic ✓ .

QUESTION 4

What would happen if a cell did not have a cytoskeleton?

- [ ] The cell would have no organelles.
- [x] The cell would lose its shape. ✓
- [ ] The cell would have a circular shape.
- [ ] The cell would have no DNA.
- [x] The cell and its organelles could not be able to move. ✓
- [ ] The cell would survive and function normally.

QUESTION 5

Before the _____ was identified, scientists believed that organelles in the eukaryotic cells floated in the cytoplasm.

- cytoplasm
- cytoskeleton ✓
- plasma membrane
- organelle

QUESTION 6

Select the statement that describes the function of the microtubules in the cell.

- containing the cell's DNA
- packaging proteins
- producing proteins
- moving substances within the cell ✓

QUESTION 7

What is the reason behind DNA floating in the prokaryotic cell's cytoplasm?

- the nucleus is very small and can not carry the DNA
- DNA usually floats in the cytoplasm in all types of cells.
- the absence of nucleus ✓
- it is faster for DNA to leave the cell

QUESTION 8

Select the pair of structures that is **NOT** found in all types of cells.

- (●) Golgi apparatus and nucleus ✓
- ( ) plasma membrane and cytoskeleton
- ( ) DNA and cytoplasm
- ( ) ribosomes and cytoplasm

QUESTION 9

Drag and drop the structure to correctly complete the sentence.

A cell's cytoskeleton is made up of microtubules and microfilaments ✓ .

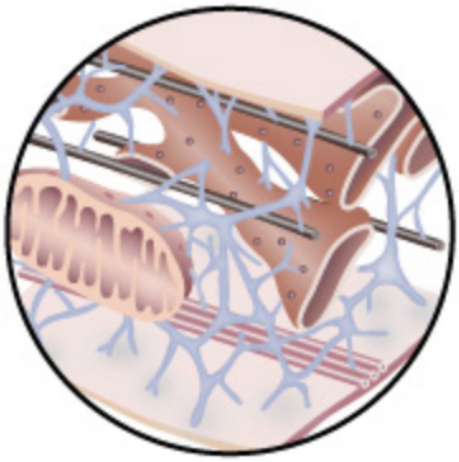
micromembranes

microproteins

microlayers

QUESTION 10

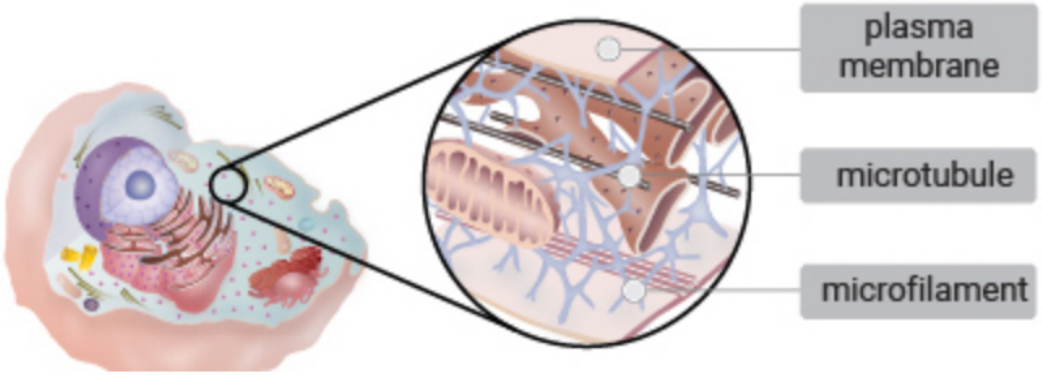
The picture shows a section of a cell's cytoskeleton.



Identify the parts that are components of the cell's cytoskeleton.

- [ ] cilia
- [ ] ribosomes
- [x] microtubules ✓
- [x] microfilaments ✓

QUESTION 11



The image shows a section of a _____.

- [x] cytoskeleton
- [ ] centrioles
- [ ] nucleus
- [ ] endoplasmic reticulum

QUESTION 12

A cytoskeleton ✓ is a network of long, thin protein fibers which include microtubules and microfilaments.

QUESTION 13

The cytoplasm ✓ is a gel-like material, inside the cell.

QUESTION 14

What are the functions of the cytoskeleton?

- [x] holds the cell organelles in place within the cytoplasm ✓
- [ ] separates the inside of the cell from the surrounding environment
- [ ] provides an environment for cell activities
- [x] enables the movement of the cell and the organelles inside it ✓
- [ ] are the site of protein synthesis
- [ ] breaking down sugar to generate energy used for other functions

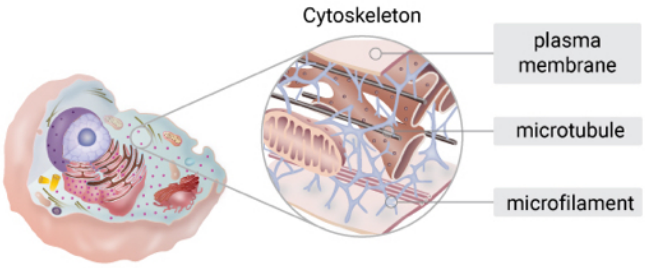
QUESTION 15

Select the correct answer from the drop-down menu.

In a prokaryotic cell, a cell's functions take place within the cytoplasm ✓ .

QUESTION 16

Drag and drop the phrase to correctly complete the sentence.



Cell movement occurs when microtubules and microfilaments

disassemble and reassemble their parts ✓ .

collide into each other

attract and repel organelles

enter and exit the cell

QUESTION 17

Type your answer in the space provided.

The function of the plasma membrane ✓ in a cell is to regulate what enters and leaves the cell.