10 MC questions:

1. What are organelles?

Special structures within cells that are responsible for particular functions

Single-celled organisms living within the body that perform important functions

Single-celled organisms living within cells that are responsible for generalized functions

Multicellular organisms living within the body that perform important functions

1. Which of the following contains instructions for making proteins?

DNA

Rough endoplasmic reticulum

Smooth endoplasmic reticulum

Golgi apparatus

1. Where are proteins produced?

DNA

Rough endoplasmic reticulum

Smooth endoplasmic reticulum

Golgi apparatus

1. Which of the following is involved in protein modification and export?

DNA

Rough endoplasmic reticulum

Smooth endoplasmic reticulum

Golgi apparatus

1. Which of the following is involved in lipid production?

DNA

Rough endoplasmic reticulum

Smooth endoplasmic reticulum

Golgi apparatus

1. What is the role of mitochondria in the cell?

To produce DNA

To produce energy

To produce new cells

To produce cell membranes

1. What is the role of the nucleus in the cells?

To house mitochondria

To house RNA

To house DNA

To house the Golgi apparatus

1. Which of the following destroy lipids that contain mistakes?

Rough endoplasmic reticulum

Smooth endoplasmic reticulum

Centromeres

Peroxisomes

1. Which of the following destroy proteins that contain mistakes?

Gyrosomes

Bilosomes

Lysosomes

Ectosomes

1. Which of the following is referred to as the powerhouse of the cell?

The nucleus

The mitochondria

The peroxisomes

The chloroplasts

4 open-ended questions:

1. How are the day-to day functions of the cell similar to making Pan de Polvo?
2. How do the DNA, Rough endoplasmic reticulum, and Golgi apparatus work together to create a complete protein?
3. Why are lysosomes and peroxisomes important for a cell?
4. Why do you think cells have specialized organelles instead of having all the structures doing everything?