

Name - _____

Start time - __ : __

End time - __ : __

Describe the processes of diffusion and osmosis and explain their importance in maintaining cellular homeostasis.

Explain the structure and function of the cell membrane.

Identify the organelles responsible for the following functions:

- Protein synthesis _____
- Energy production _____
- Storage of genetic material _____

Discuss why cells are considered the basic units of life and the implications of cellular structure and function for living organisms.

Explain how the endoplasmic reticulum (ER), Golgi apparatus, and vesicles work together in the process of protein synthesis and secretion.