Name Rocio Cosim Period 4

Chapter 6: A Tour of the Cell

Concept 6.1 To study cells, biologists use microscopes and the tools of biochemistry

- 1. The study of cells has been limited by their small size, and so they were not seen and described until 1665, when Robert Hooke first looked at dead cells from an oak tree. His contemporary, Anton van Leeuwenhoek, crafted lenses, and with the improvements in optical aids, a new world was opened. Magnification and resolving power limit what can be seen. Explain the difference. Magnification is the ratio of an object's image to its real size. In central, resolution measures the clarity of the image. Saw that the power is ~ accuracy in visualization.

 Witsu's How accurate the Power is ~ to scale? 3 = N
- 2. The development of electron microscopes has further opened our window on the cell and its organelles. What is considered a major disadvantage of the electron microscopes?

A major disadvantage of the electron microscopes is their inability to reflect color

3. Study the electron micrographs in your text. Describe the different types of images obtained from:

scanning electron microscopy (SEM)

The SEM Movides good 3-D Images which is good for

getting, a good depth perception — used for detailed studies

transmission electron microscopy (TEM)

2-D Imaging that is used/benneficial for achieving extremedetail where you're able to compare

well Since you can enhance contrast

4. In cell fractionation, whole cells are broken up in a blender, and this slurry is centrifuged several times. Each time, smaller and smaller cell parts are isolated. This will isolate different organelles and allow study of their biochemical activities. Which organelles are the smallest ones isolated in this procedure? The ribosumes

Concept 6.2 Eukaryotic cells have internal membranes that compartmentalize their functions

5. Which two domains consist of prokaryotic cells?

Bacteria and Archea consist of prokanyotic cells Ex: fungi, animals 4 peants

 A major difference between prokaryotic and eukaryotic cells is the location of their DNA. Describe this difference.

The DNA of the eukanyotic cell is in the nucleus, versus in proxanyotic cells, the bna is in the nucleoid c not membrane encosed)

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