

4

REVIEW SHEET

EXERCISE

NAME _____

LAST TRIAL DATE _____

The Cell: Anatomy and Division

Anatomy of the Composite Cell

1. Define the following terms:

organelle _____ *Each's structural sub-unit that performs a specific function within the cell.*

vacuole _____ *The large, structural and fluid-filled cell of living organisms.*

2. Animal cells have differences that reflect their specific functions in the body: what functions do they have in common?

Cells, membrane, organelles, in gaps, nucleus, cytosol, in cytoplasm, a nucleus, and so on.

3. Identify the following cell parts:

- | | |
|--|--|
| plasma membrane _____ | 1. external boundary of cell; regulates flow of materials into and out of the cell; site of cell signaling |
| lysosome _____ | 2. contains digestive enzymes of many varieties; "wastebasket" of the cell |
| mitochondrion _____ | 3. scattered throughout the cell; site of production of ATP |
| microvilli _____ | 4. slender projections of the plasma membrane that increase the surface area |
| inclusions _____ | 5. stored glycolytic products, crystals, pigments, and so on |
| Golgi apparatus _____ | 6. membranous system consisting of flattened sacs and vesicles; packages proteins for export |
| spindle _____ | 7. central body of the cell; necessary for cell division and cell life |
| ribosome _____ | 8. tiny, rod-shaped bodies near the nucleus; sites of formation of the various proteins |
| nucleolus _____ | 9. dense, clearly staining, nuclear body; packaging site for ribosomes |
| microtubules _____ | 10. contractile filaments of the cytoskeleton |
| rough ER or endoplasmic reticulum _____ | 11. membranous system involved in intracellular transport of proteins and synthesis of membrane lipids |
| cytoplasm _____ | 12. attached to membrane system or scattered in the cytoplasm; synthesizes proteins |
| chromatin or chromosomes _____ | 13. threadlike structures in the nucleus; contain genetic material (DNA) |
| vacuole _____ | 14. site of free radical detoxification |

Answers For Lab Exercise 4 Cell Anatomy

Elaine Nicpon Marieb



Answers For Lab Exercise 4 Cell Anatomy:

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