| Name | Date | Period |
|---|---------------------------|-------------------------------|
| | Chapter 3 Revie | ? ₩ |
| Directions : Answer the following questions | using your notes and text | book (pages 68-91) |
| 1. Describe how the following scientists contra(5 pts.) | ributed to the developmer | nt of the Cell Theory |
| a. Robert Hooke- | | |
| b. Anton van Leeuwenhoek- | | |
| c. Matthias Schleiden- | | |
| d. Theordor Schwann - | | |
| e. Rudolf Virchow- | | |
| 2. List the three (3) major principles of the Ce | ell Theory (3 pts.) | |
| a. | | |
| b. | | |
| C. | | |
| 3. Complete the chart below describing the s Prokaryotic cells- answer either yes or no. (| | between Eukaryotic and |
| Contains | Prokaryotic Cells | Eukaryotic Cells |

| Contains | Prokaryotic Cells | Eukaryotic Cells |
|-------------------------------|-------------------|-------------------------|
| Has nucleus | | |
| Has membrane-bound organelles | | |
| Has cytoplasm | | |
| Can be multicellular | | |
| Considered a "living" thing | | |
| Has a cell wall | | |
| Contains genetic material | | |

4. Complete the chart below comparing plant and animal cells –answer either yes or no (9 pts.)

| Contains | Animal cells | Plant cells |
|-----------------------|--------------|-------------|
| Nucleus | | |
| Cell wall | | |
| Cell membrane | | |
| Mitochondria | | |
| Chloroplasts | | |
| Ribosomes | | |
| Large central vacuole | | |
| Centrioles | | |
| Lysosomes | | |

| ayer (phospholipids) | , protein chanr | nels, carbohy | rdrate chain (6 pt | ts.) | |
|-------------------------|-----------------|----------------|--------------------|------|--|
| | | | | | |
| | | | | | |
| | | | | | |
| Decribe what is happe | | 3.23 on page 8 | 36 (3 pts.) | | |
| | | | | | |
| b. Hypertonic so | lution- | | | | |
| | | | | | |
| c. Hypotonic sol | ution- | | | | |

| gh and smo | ooth), golgi ap | paratus, vac | uole, riboso | ndria, endop me | ` |
|------------|-----------------|--------------|--------------|--------------------|---|
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| . Draw and label a typical animal cell. Label the following cell structures: cell membrane, ucleus, nucleolus, mitochondria, endoplasmic reticulum (both rough and smooth), golg pparatus, vacuole, ribosome, centriole, lysosome, vesicle | | | | | |
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