**Cell Features** (p. 55 - 61)

**I. The Cell Theory**

 **1. List the three parts of the cell theory.**

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **2. Why are many smaller cells more efficienct than one larger cell?**

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 **3. Match the correct cell features with the correct definitions. *(Found in all cells)***

 1. \_\_\_\_\_\_\_\_ Cell Membrane A. System of microscopic fibers

 2. \_\_\_\_\_\_\_\_ Cytoplasm B. Provides instructions for protein synthesis

 3. \_\_\_\_\_\_\_\_ Cytoskeleton C. Regulates what enters and leaves the cell

 4. \_\_\_\_\_\_\_\_ DNA D. Cellular structures on which proteins are made

 5. \_\_\_\_\_\_\_\_ Ribosomes E. Interior of the cell

**II. Prokaryotes**

 **1. Define the term prokaryote.**

Prokaryote **–**

 **2. A subset of prokaryotes is commonly called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

 **3. Which of the following is not found in a prokaryotic cell?**

 a. cytoplasm

 b. circular loop of DNA

 c. cell membrane

 d. mitochondria

 **4. Prokaryotic cells possess internal structures that divide cells into compartments.**

 Circle One : True False

 **5. Define the term cell wall.**

 Cell Wall –

 **6. Define the term flagella.**

 Flagella –

**III. Eukaryotic Cells**

 **1. Define the term eukaryote.**

 Eukaryote –

 **2. Match the terms with the correct definitions.**

 1. \_\_\_\_\_\_\_ Nucleus A. Structure that carries out specific activities in the cell

 2. \_\_\_\_\_\_\_ Organelle B. Internal component that houses DNA

 **3. What are the boundaries of eukaryotic cytoplasm?**

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 **4. Define the term cilia.**

 Cilia –

 **5. What is the purpose of the cytoskeleton?**

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 **6. Match the cytoskeleton fibers with the correct definitions.**

 1. \_\_\_\_\_\_\_\_ Actin Fibers A. Transport information from nucleus to cell parts

 2. \_\_\_\_\_\_\_\_ Microtubules B. Contract & expand to determine cell shape

 3. \_\_\_\_\_\_\_\_ Intermediate Fibers C. Anchors ribosomes and enzymes

**IV. The Cell Membrane**

 **1. The cell membrane is selectively permeable.**

 Circle One : True False

 **2. Define the term phospholipid.**

 Phospholipid –

 **3. Explain the structure of a lipid bilayer.**

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 **4. Match the cell membrane proteins with the correct definitions.**

 1. \_\_\_\_\_\_\_\_ Enzyme A. Helps move substances across the cell membrane

 2. \_\_\_\_\_\_\_\_ Marker Proteins B. Recognizes & binds to specific substances

 3. \_\_\_\_\_\_\_\_ Receptor Proteins C. Assists chemical reactions inside cells

 4. \_\_\_\_\_\_\_\_ Transport Proteins D. Attached to carbohydrates to identify cell type