

Cell Structure and Function (Special Day)

1. Describe the structure of each organelle.

(a) **cell wall** - **cellulose** (plant cell)

(b) **cell membrane** - **phospholipid bilayer**

(c) **cytoplasm** - **fluid matrix** (gel-like)

(d) **mitochondrion** - **site of aerobic respiration** (powerhouse)

(e) **chloroplast** - **site of photosynthesis** (converts light energy into chemical energy)

cell wall - **cellulose** (plant cell)

(f) **vacuole** - **storage** (large central vacuole in plant cells)

(g) **ribosome** - **protein synthesis** (small dots)

(h) **lysosome** - **digestion** (digests waste)

lysosome

(i) **golgi apparatus** - **transport** (stack of sacs)

golgi apparatus

(j) **endoplasmic reticulum** - **protein synthesis** (network of membranes)

(k) **cellular respiration** - **energy** (mitochondrion)

(l) **photosynthesis** - **energy** (chloroplast)

(m) **cellular respiration** - **energy** (mitochondrion)

(n) **cellular respiration** - **energy** (mitochondrion)

cell wall - **cellulose**

cell membrane - **phospholipid**

cytoplasm - **fluid matrix**

mitochondrion - **energy**

chloroplast - **energy** (photosynthesis)

2.



(a) Plant cell with large central vacuole (b) Plant cell with small central vacuole

Chapter 1 Cell Structure And Function Answer Key

Yan Bai



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