

# Cells & Genetics- Chapter 1 Review

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

1) Describe the difference between a hand lens and a compound microscope. (2 points)

2) Define resolution (1 point)

3) Define magnification (1 point)

4) List the three main ideas behind cell theory. (3 points)

a)

b)

c)

5) Define and tell the function of the following cell parts (1 point each):

a) cell wall

b) nucleus

c) chromatin

d) mitochondria

e) ribosomes

f) chloroplasts

g) vacuoles

h) lysosomes

i) nucleolus

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j) golgi bodies

k) endoplasmic reticulum

6) How are bacterial cells different from plant and animal cells?

7) List and describe the four main organic compounds found in living organisms (8 points)

a)

b)

c)

d)

8) What is the difference between organic and inorganic compounds? (1 point)

9) Define diffusion (1 point)

10) Define osmosis (1 point)

11) How do cells move molecules in and out of the membrane (list and describe at least three ways)? (3 points)

12) What did you learn in the Eggsperiment lab? (3 points)

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13) What are the 8 steps to scientific inquiry?

14) List the main components required before a person can call what they are doing science.