Name				

Studying Life

I. Introduction

1. What is biology?

- The study of life + life processes (Cell Biology, Genetics Evolution Zoology, Botany, Ecology, A+P

II. Characteristics Of Living Things

1. What is a cell?

- Smallest unit of a living organism (skin connective ad pose neural digestive eye)

- 2. Circle the letter of each sentence that is true about cells.
 - a. A cell is the smallest unit of an organism that can be considered alive.
 - (b) A multicellular organism may contain trillions of cells.
 - c. A living thing that consists of a single cell is a multicellular organism.
 - d. Organisms are made up of cells.
- 3. Match the year with the correct event contributing to the cell theory.
 - 1. mid-1600's A
 - A. Robert Brown ("dark structure" = nucleus)
 - 2. 1665
- B. Rudolf Virchow (cells come from pre-existing cells)
- 3. A 1833
- C. Matthias Schleiden (all plants made up of cells)
- 4. _____ 1838
- D. Anton van Leeuwenhoek (saw "living things" with microscope
- 5. _____ 1839
- E. Robert Hooke (examined cork; "tiny chambers" = cells)
- 6. _______- 1855
- F. Theodor Schwann (all animals made up of cells)
- 4. What are two types of asexual reproduction?

1. Regeneration Senster) 2

Bulling (Spines)

- 5. Living things are based on a universal
- 6. Circle the letter of each sentence that is true about living things.
 - a. The life cycle of many organisms involves development.
 - b. For bacteria, growth is mostly a simple increase in size.
 - c. Each type of organism has a distinctive life cycle.
 - d. Cells may change in number but never differentiate.
- 7. Why does an organism need energy and a constant supply of materials?

(moving reproduction growth, development)

8. What is metabolism?

- Utilization of organic matter for energy (breaking down or building up analecated)

	Name							
9. All o	organisms respond (to the enviro	nment in exa	actly the same ways.	(
!	Circle One :	True	False	(Ex) Brain Trauma				
10. Wh	at is homeostasis?							
	- Balance o	if cond	itions.	within or among organ	ハンシャ			
ALC:	(Positive			e Feelback)				
11. A g	roup of organisms	that changes	over time is	said to evolve				
III. Branches	Of Biology			(constant process)				
1. Mat	ch the different kin	ds of biologis	ts with the f	ocus of their study.				
	1 Botan	nist	A. Inheri	ted or environmentally-caused abnorn	naliti			
	2 Bioch	nemist	B. Interna	al functions of living organisms				
	3. E - Conse	ervationist	C. Plant g	growth and responses				
·	4 Genet	ticist	D. Ancient organisms and their remains					
	5. <u> </u> - Marir	ne Biologist	E. Human effects on species populations					
,	6. <u>H.</u> - Micro	obiologist	F. Animal growth and development					
	7. <u>J.</u> - Onco	logist	G. Aquat	ic organisms and their environment				
2	8 Paleo	ntologist	H. Infect	ious diseases and causes				
ı	9. <u> </u>	ologist	I. Physica	al and chemical effects on life process	es			
	10 Zool	logist	J. Cancer	r-related issues and treatment				
2. Lab	el each of the illustr	ations below	according to	o the level of study represented.				
	as nism	Bio	sphere	Collabor .				

3. What kinds of information can biology provide about matters affecting human society?

- Answers vary

(Improve lifestyles Conservation Extertain ment)