Psychology	
Lesson 10	
Handout 25 (page	1)

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Genetic and Environmental Influences on Behavior

Part A.

List five physical, five mental, and five emotional traits that you possess. Next to each, indicate whether you acquired that trait through genetics (mark G) or the environment (mark E).

•	Physical	Mental	Emotional
1.		1.	1.
			*
2.		2.	2.
3.		3.	3.
4.		4.	4.
5.		5.	5.

Part B.

For each trait listed below, mark G if the trait is acquired through genetic factors. Mark E if the trait is acquired through environmental factors. If you think the trait is acquired through the interaction of genetics and environment, mark GE.

extreme, repeated violence	schizophrenia
alcoholism	manic-depression
intelligence	shyness
obesity	Alzheimer's disease
homosexuality	thrill seeking
temperament	dyslexia
nicotine dependence	hyperactivity

Part C.

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Answer each of these questions carefully. Use examples from part B if appropriate.

- 1. All genetic characteristics are not inherited. How this can be explained?
- 2. How can you prove whether a trait is acquired through genetics or the environment?
- 3. Explain how the environment and genetics could interact to produce the following traits.
 - a. alcoholism
 - b. nicotine dependence
 - c. obesity
 - d. extreme violence
 - e. intelligence