Name: _____   ID#: _____

Question 1:

List two reasons for studying programming languages and briefly explain one of them.   (**3 points**)

Question 2:

List three factors that will affect (positively or negatively) the readability of a programming language.   (**2 points**)

Question 3:

What is the main difference between the compilation and interpretation of a program?   (**3 points**)

Question 4: (**2 points**)

Briefly explain how a language generator works.

Question 4: (**5 points**)

Consider the following grammar:

‹S› → a ‹S› c ‹B› | ‹A› b

‹A› → c ‹A› | c

‹B› → d | ‹A›

Which of the following sentences is (are) in the language generated by this grammar?

a. abcd   b. acccbd   c. acccbcc   d. acd   e. accc