Unx511/DPS912: Unix Systems Programming

Quiz 2

1.	What is the difference between a shared library and a static library? [2 marks]
2.	What command would you issue to list the dynamic dependencies of a shared library (for instance libcrypt.so)? [1 mark]
3.	What command would you issue to see the symbols inside a static library (ie. libcrypt.a)? [1 mark]
4.	Why do functions, processes, and/or programs return an error number? [1 mark]
5.	What do the following functions do? #include <string.h> #include <stdio.h> a) void perror(const char *msg); [1 mark]</stdio.h></string.h>
	b) char *strerror(int errnum); [1 mark]
6.	When writing portable applications, we may want the various header files to expose only the definitions (constants, function prototypes, and so on) that follow a particular standard. To do this we define one or more feature macros when compiling a program or by defining the macro in the program source code: #define _BSD_SOURCE 1, or \$cc -D_BSD_SOURCE prog.c What standards do the following macros represent? a) _GNU_SOURCE [1 mark]
	b) _BSD_SOURCE [1 mark]
	c) _POSIX_SOURCE [1 mark]