	Name: Student ID:
	Score:/ 50
1.	(5 points) Fig. 1 shows the UNIX operating system architecture. Fill in following blanks (1) (2) (3) (4) (5)
	(5) $(1)$ $(3)$
	Figure 1: Architecture of the UNIX operating system
2.	(5 points) Following is a part of man page.
	<pre>SEE ALSO fork(2), sigaction(2), wait(2), exit(3)</pre>
	If you want to read more about exit, then how would you search for the information using the shell command.
3.	(5 points) int create() is deprecated and is replaced with int open() function. What flags would you use to make open() equivalent to create() function.
4.	(5 points) An file's offset can be set explicitly by calling lseek. whence argument can recieve one of three values. Explain them in detail.

5.	(5 points) What is the difference of sequential and random I/O operation. Give an example using system calls.
6	(5 points) There are three data structures to represent an open file. What are the they,
0.	explain them in detail?
7.	(5 points) Describe what happens when a file is opened with O_APPEND flag.
8.	(5 points) Calling is equivalent to calling lseek followed by write; there is no way to interrupt the two operations that occur when we call the function. These functions are called
9.	(10 points) Alice wants to change the file permission to rw-rr-x. How can you help Alice to change the permission (both shell and with system call is required for full credit)?