Name _____

1.  What is concurrency?

2.  Name the three basic approaches that modern operating systems provide for building concurrent programs.

3.  What failures do concurrent servers based on processes avoid?

4.  How do concurrent servers based on processes share information?

5.  The select() system call does not immediately return. When does it return?

6.  What command do you use to view the man page for the select() system call?

7.  Suppose you have a fd_set containing file descriptors 1 and 17 and you want select() to monitor both of the descriptors.  What is the value of first argument to select()?

8.  What does the second argument to select() hold?

9.  What is the significance of the value returned by select()?

10. What does FD_ZERO do?

11. What does FD_SET do?

12. What does FD_CLR do?

13. What does FD_ISSET do?

14. What does every logical flow in an event driven server based on I/O multiplexing have access to?

15. Why are servers based on I/O multiplexing more efficient than servers based on processes?

16. What is one vulnerability of the concurrent echo server that is described in the textbook?

17. What is the maximum number of CPU cores that a server based on I/O multiplexing can utilize?