Advanced Unix programming – Quiz 10

Time limit: 10 minutes

1. (3 points) For each of the following entities, mention whether it is *shared* by all threads of a process, or if each thread has a *distinct* one.

   - Signal mask – Distinct
   - Signal disposition – Shared
   - Signal handlers – Shared

2. (1 points) Can a thread **ignore** a signal, while other threads in that process do not ignore it?

   No.

3. (1 points) Can a thread **block** a signal, while other threads in that process do not block it?

   Yes.

4. (1 point) Which of the following is normally the default terminal I/O mode?

   (a) Canonical mode
   (b) Non-Canonical mode

   A.

5. (2 points) Which of the following is the main feature of signal driven IO?

   (a) The kernel sends us a signal when something happens on a file descriptor.
   (b) The kernel calls *pthread_cond_signal* when something happens on a file descriptor.
   (c) I/O operations return EWOULDBLOCK if they cannot complete immediately.

   A.

6. (2 points) Which of the following is the main feature of non-blocking I/O?

   (a) The kernel sends us a signal when something happens on a file descriptor.
   (b) Typical input and output calls, and *accept*, return EWOULDBLOCK if they cannot complete immediately, while *connect* returns EINPROGRESS if it cannot complete immediately.
   (c) The kernel terminates the process if an I/O operation cannot complete immediately.
   (d) The kernel sends the process a SIGIO signal, if an I/O operation cannot complete immediately.

   B.