## EECS 678 - Operating Systems - Fall 2020Quiz - 3

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Lab Time: (a) M 12:00pm, (b) M 4:00pm, (c) W 9:00am, (d) W 4:00pm, (e) F 12:00pm

- 1. True or False (1 point): On Linux, the parent process always waits for its child process to finish.
- 2 True or False (1 point): The shared memory IPC model will typically allow faster communication than message passing.
- 3. True or False (1 point): In the shared memory IPC model, reads to shared memory are typically blocking.
- 4. True or False (1 point): Any two processes running on the same OS can use the (anonymous) pipe IPC mechanism to communicate with each other.
- 5. Fill-in the blank (1 point): The <u>FIFO</u> /<u>noned</u> pipe IPC mechanism limits a process to be a reader or a writer, but not both at once.
- 6. Select the correct answer (1 point): Which IPC mechanism allows sent messages to be received out-of-order?
  (a) Pipe (b) Fifo (c) Message queue

Please turn page over

8. Answer (3 points): Use the *pipe* IPC mechanism to synchronize the parent and child processes below to guaranty the following output: From Child process From Parent process

```
int main()
{
    char *s, buf[1024];
    int fds[2];
    char *s = "Pipe program for process synchronization\n";
```

}

}