Operating System Laboratory　　　　　　　　　**Name:** _____
Fall 2018　　　　　　　　　**Student Number:** _____
Final
18 Dec 2018
Time Limit: 30 Minutes

This exam contains 3 pages (including this cover page) and 9 questions. Total of points is 9.

Keep clam and take your exam. Please consider C programming language and Linux operating system. This exam has only 5 points.

Grade Table (for teacher use only)

Question	Points	Score
1	2	
2	1	
3	1	
4	1	
5	1	
6	1	
7	1	
8	1	
9	0	
Total:	9	

1. (2 points) What is the difference between interrupt and trap?

2. (1 point) A hardware device wishes to transfer information to the main memory of the computer for access by an application. Which of the following mechanisms **cannot** be used to this purpose?

    A. direct memory access

    B. polled mode operation

    C. programmed I/O

    D. zombie processes

3. (1 point) Which one of the following system calls is related to process creation?

    A. execl

    B. read

    C. write

    D. send

4. (1 point) Which one of the following functions can be used as a thread handler?

    A. void *handler(void *)

    B. int handler(int, int)

    C. void *handler(char *, int *)

    D. boolean handler(string, string)

5. (1 point) Which choice is not a way for thread synchronization?

    A. mutex

    B. semaphore

    C. spinlock

    D. pipe

6. (1 point) Is there any way to have a shared value in multiple process?

    A. Yes

    B. Yes but it works only after the value is changed

    C. Yes but it does not reflect the changing

    D. No

7. (1 point) Which relationship is meaningful?

    A. pipe and threads

    B. fifo and threads

    C. sockets and processes

    D. sockets and threads

8. (1 point) Linux only supports IP in network layer?

    A. true

    B. false

9. (0 points) What do you think about our class and this exam? Do you consider our class and topics useful?