

Operating System Laboratory

Fall 2018

Final

18 Dec 2018

Time Limit: 30 Minutes

Name: _____

Student Number: _____

This exam contains 3 pages (including this cover page) and 10 questions.
Total of points is 10.

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	1	
10	0	
Total:	10	

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

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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. (1 point) POSIX is a standard that defines how network protocol works?
- A. true
 - B. false
10. (0 points) What do you think about our class and this exam? Do you consider our class and topics useful?