Name:李启佳 Id:2017494095

Answer：1.D 2.A 3.C 4.D 5.A 6.C 7.A 8.D 9.D 10.D 11.D 12D

In this exercise, we are going to explore many of the basic concepts of Operating Systems. When you encounter ambiguities and/or questions, I suggest 1) Baidu/Google search the topic. 2) Look into our “Knowledge\_Check\_Questions\_Answers” folder, it has many relevant and useful learning resources.

1. What is operating system?  
a) collection of programs that manages hardware resources  
b) system service provider to the application programs  
c) link to interface the hardware and application programs  
d) all of the mentioned

2. What is UNIX?  
a) an operating system  
b) a text editor  
c) programming language  
d) software program

3. Which one of the following is not true?  
a) kernel is the program that constitutes the central core of the operating system  
b) kernel is the first part of operating system to load into memory during booting  
c) kernel is made of various modules which cannot be loaded in running operating system  
d) kernel remains in the memory during the entire computer session

4. Which one of the following errors will be handle by the operating system?  
a) power failure  
b) lack of paper in printer  
c) connection failure in the network  
d) all of the mentioned

5. If a process fails, most operating system write the error information to a \_\_\_\_\_\_  
a) log file  
b) another running process  
c) new file  
d) none of the mentioned

6. By operating system, the resource management can be done via \_\_\_\_\_\_\_\_\_\_  
a) time division multiplexing  
b) space division multiplexing  
c) time and space division multiplexing  
d) none of the mentioned

7. Which part of the UNIX operating system interacts with the hardware?  
a) Kernel  
b) Shell  
c) vi editor  
d) application program

8. In which language UNIX is written?  
a) JAVA  
b) Python  
c) C++  
d) C

9. I/O hardware contains \_\_\_\_\_\_\_\_\_\_\_\_  
a) Bus  
b) Controller  
c) I/O port and its registers  
d) All of the mentioned

10. If one or more devices use a common set of wires to communicate with the computer system, the connection is called \_\_\_\_\_\_  
a) CPU  
b) Monitor  
c) Wirefull  
d) Bus

11. The main purpose of having memory hierarchy is to \_\_\_\_\_\_\_\_

a) Reduce access time

b) Provide large capacity

c) Reduce propagation time

d) Reduce access time & Provide large capacity

12. What is Linux?  
a) single user, single tasking  
b) single user, multitasking  
c) multi user, single tasking  
d) multi user, multitasking

**Submission:**

Please submit online. If that fails, email your results to [jcc4018@qq.com](mailto:jcc4018@qq.com).

The subject of the email should be: [Your StudentID, Assignment Name]