

# 大同大學 99 學年度研究所碩士在職班入學考試試題

考試科目：計算機概論

所別：資訊工程研究所

共 3 頁

註：本次考試 不可以參考自己的書籍及筆記； 不可以使用字典； 不可以使用計算器。

選擇題 每一題二分

1. Which of the following storage systems is best suited for storing and retrieving long strings of data that are processed in their sequential order?  
A. Main memory      B. Magnetic disk      C. Optical CDs and DVDs
2. How many different symbols can be encoded using Unicode?  
A. 256      B. 4,096      C. 65,536      D. 1,046,476
3. Which of the following components of an operating system is not part of the kernel?  
A. Shell      B. File manager      C. Scheduler
4. Multitasking in a computer with only one CPU is accomplished by a technique called  
A. Bootstrapping      B. Batch processing      C. Time sharing
5. Execution of an operating system is initiated by a program called the  
A. Window manager      B. Scheduler      C. Bootstrap
6. The end of a time slice is indicated by the occurrence of a signal called  
A. An interrupt      B. A semaphore      C. A login
7. A section of a program that should be executed by at most one process at a time is called a  
A. Utility      B. Critical region      C. Privileged instruction
8. Which of the following is a technique for controlling access to a critical region?  
A. Spooling      B. Time sharing      C. Semaphore      D. Booting
9. Which of the following is a task that is not performed by the kernel of an operating system?  
A. Communicate with the user      B. Schedule processes  
C. Allocate resources      D. Avoid deadlock
10. Which of the following is not a means of obtaining a form of multitasking?  
A. Pipeling      B. Time sharing  
C. Virtual memory      D. Multiple processors
11. Ethernet is a means of implementing which of the following network topologies?  
A. Star      B. Ring      C. Bus
12. Which of the following connects existing networks to form an internet?  
A. Bridge      B. Router      C. Switch      D. Repeater
13. If the network identifier of a domain in the Internet is 115.48, how many unique IP addresses are available for identifying machines within the domain (assuming 32 bit addresses)?  
A. 4096      B. 16,384      C. 32,768      D. 65,536
14. Which layer of the TCP/IP hierarchy chops messages into units whose size is compatible with the Internet?  
A. Application      B. Transport      C. Network      D. Link
15. Which layer of the TCP/IP hierarchy decides the direction in which message segments are transferred across the Internet?  
A. Application      B. Transport      C. Network      D. Link
16. Which layer of the TCP/IP hierarchy presents incoming messages to the computer user?  
A. Application      B. Transport      C. Network      D. Link
17. Which layer of the TCP/IP hierarchy reassembles messages as their pieces arrive at the destination?  
A. Application      B. Transport      C. Network      D. Link
18. Which of the following is not a means of implementing server-side activities?  
A. CGI      B. JSP      C. ASP      D. Applets
19. When searching within the list  
Lewis, Maurice, Nathan, Oliver, Pat, Quincy, Roger, Stan, Tom  
which of the following entries will be found most quickly using the binary search algorithm?  
A. Lewis      B. Pat      C. Tom



