

銘傳大學九十學年度轉學生招生考試

七月二十九日 第三節

資科 轉二

計算機概論 試題

I. 選擇題(每題 3 分，共 60 分)

1. In order for transactions to be processed as they occur, the processing must be
 - a. online and zone
 - b. real-time and batch
 - c. batch and online
 - d. online and real-time

2. A sophisticate RAID technique is
 - a. data hashing
 - b. data mirroring
 - c. data striping
 - d. data sectoring

3. When accessing a record on disk, the action that comes first is
 - a. rotational delay
 - b. data transfer
 - c. head switching
 - d. seek time

4. A set of programs that permits the computer to control and manage its own resources is called a(n)
 - a. controller
 - b. operating system
 - c. manager
 - d. environment

5. The process of loading the operating system into memory is called
 - a. booting
 - b. pulling
 - c. interfacing
 - d. startup

6. A set of parallel data paths to transport data internally in the computer system is called a
 - a. transistor
 - b. cache
 - c. bus line

d. picossecond

7. Data and instructions are brought into memory from an input device by

- a. the ALU
- b. ROM burners
- c. the control unit
- d. flash memory

8. The network topology that uses a hub computer to manage the network is

- a. star
- b. ring
- c. peer-to-peer
- d. bus

9. The card inserted in a slot in a personal computer to allow it to send and receive messages from the LAN is the

- a. CSMA/CD
- b. NIC
- c. TCP/IP
- d. EDI

10. A device that can convert a digital signal to an analog signal, or an analog signal to a digital is called

- a
- a. digitizer
- b. demodulator
- c. modem
- d. token ring

11. The technology that uses light to send data is called

- a. twisted pairs
- b. fiber optics
- c. microwave
- d. satellite

12. The network protocol that accesses the network by “listening” to see if the network is free is

- a. Ethernet
- b. EDI
- c. Bridge
- d. EFT

13. Two similar networks can exchange messages by using a(n):

- a. gateway
- b. EDI
- c. Bridge
- d. EFT

14. Using Ethernet, if two computers on LAN attempt to send messages at the exact same time, this is called a
- token
 - node
 - collision
 - ring
15. The small programs that can provide animation on the web are called
- browsers
 - engines
 - hyperregions
 - applets
16. The system referred to as the World wide web was developed by
- Marc Andreessen.
 - Tim Berners-Lee.
 - ARPA.
 - the Rand Corporation
17. The operators AND, OR, and NOT are used in
- HTTP
 - FTP
 - Boolean logic.
 - URLs.
18. The communications link with the greatest bandwidth is
- DSL.
 - cable
 - ISDN
 - modem
19. In a business environment, push software gathers information from various Internet sites and sends it directly to
- the company's home page.
 - each company employee's personal computer
 - the company's sewer
 - the company's backbone
20. Another name for push technology is
- multicasting
 - unicasting
 - webcasting
 - broadcasting

II. 演算題(每題 10 分, 共 40 分)

21. Write an iterative C program to search a sorted list.

22. Write a recursive C program to search a sorted list.

23. Use Boolean algebra to simply Boolean function

$$F = A' + B + C' + AB'C$$

24. Use the map method to simply Boolean function

$$F(w, x, y, z) = \Sigma (0, 1, 2, 5, 7, 8, 9, 10, 13, 15)$$

〈 試題完 〉