

國立臺北科技大學 101 學年度碩士班招生考試

系所組別：4212 經營管理系碩士班甲組

第二節 計算機概論 試題 (選考)

第一頁 共三頁

注意事項：

1. 本試題共五題，配分共 100 分。
2. 請標明大題、子題編號作答，不必抄題。
3. 全部答案均須在答案卷之答案欄內作答，否則不予計分。

一、單選題，每小題3分，共有20小題。(本大題共60分,占60%)

1. What is software-as-a-service (SaaS)?
 - A. A type of intelligent bot
 - B. A company who specializes in software development
 - C. Software that you pay for its use; the more often you use it the more often you pay
 - D. Software that performs some service for you; for instance, locating information on the Internet
2. What is push technology?
 - A. Web sites that push pop-up advertisements onto visitors
 - B. Research companies of bleeding-edge technology
 - C. Information that finds its way automatically to you
 - D. Mass data that pushes new marketing strategies and ways of doing business
3. What type of Web site allows you, as a visitor, to create, edit, change, and delete content?
 - A. RSS
 - B. Wiki
 - C. CAVE
 - D. Push and pull
4. What is the difference between a social networking site and a blog?
 - A. Social networking sites create a community of people; blogs keep people informed
 - B. A blog has more sophisticated systems than social networking sites
 - C. Social networking sites provide frequently published news; blogs do not
 - D. Social networking sites allow you to be someone other than yourself; blogs do not
5. If you wanted your children to play games with others who had the same gaming device but you wanted to ensure that people outside their play area could not tap into the game, what wireless device would you need?
 - A. WiFi
 - B. Bluetooth
 - C. Bluetooth or WiFi
 - D. RFID
6. Which of the following *is not* a form of optical storage?
 - A. CD-ROM
 - B. CD-R
 - C. DVD
 - D. SD card
7. XD cards, SD cards, CF cards, SM cards, and memory sticks are what type of storage?
 - A. Optical storage
 - B. Flash memory
 - C. Magnetic storage
 - D. Virtual storage
8. What uses electronic pathways to move information between basic components on the motherboard, including between CPU and RAM?
 - A. System bus
 - B. Expansion slot
 - C. Expansion card
 - D. Expansion bus

注意：背面尚有試題

9. What is cache memory?

- A. Temporary storage for instructions waiting to be processed
- B. Extra storage space for temporary data files
- C. The device that decodes and executes instructions
- D. Storage space for information that has been processed

10. What two primary and distinct parts are contained in a CPU?

- A. Control unit and logic unit
- B. RAM and control unit
- C. Cache and logic unit
- D. Arithmetic logic unit and control unit

11. Which type of Web technology provides you with broadcasts of audio and video files?

- A. RSS feeds
- B. Blog
- C. Podcasts
- D. Wikis

12. What is a relational database?

- A. A three-dimensional table or file of information
- B. An object-oriented storage and data management system
- C. A series of related worksheets populated with information
- D. A logically related two-dimensional table or file of information

13. What type of security threat is it when a Web server is flooded with requests from thousands of users at once and causing it to become unavailable?

- A. Firewall
- B. Intrusion detection system
- C. Denial-of-service
- D. Availability

14. Which network device connects together separate networks of computers?

- A. Hubs
- B. Switches
- C. Routers
- D. Virtual connectors

15. Which of the following statements is inaccurate in relation to the five primary object-oriented concepts?

- A. Information and procedures create classes
- B. Classes create objects
- C. Objects communicate with other objects via messages
- D. Objects create classes

16. Which of the following principles of object orientation relates to the ability to define superclass and subclass relationships among classes?

- A. Polymorphism
- B. Encapsulation
- C. Inheritance
- D. Information decomposition

17. What is a data warehouse?

- A. A large hardware environment that supports multiple platforms
- B. A logical collection of information gathered from many different operational databases to create business intelligence
- C. An operational database system used to manage and analyze transactional data
- D. An accumulation of all operational data stored by large organizations

18. Which of the following *is not* an operating system?

- A. Linux
- B. Firefox
- C. Windows XP
- D. Mac OS

19. Which type of utility software is used to organize information on your hard disk in the most efficient way?

- A. Disk optimization
- B. Database management
- C. Disk defragmentation
- D. File management

20. Which of the following is a push technology?

- A. Podcasting
- B. RSS Feeds
- C. Blogs
- D. Podcasting, RSS Feeds and Blogs are push technologies

二、請說明雲端服務的層次，各服務層次請舉一個廠商例子。(本題10分，占10%)

三、請列出以下各排序技巧之平均狀況時間複雜度，時間複雜度用Big O表示法。(本題10分，占10%)

- Bubble sort**
- Selection sort**
- Insertion sort**
- Quick sort**
- Shell sort**

四、請說明程式語言中的 Call by Value 與 Call by Reference。(本題 10 分，占 10%)

五、請說明 TCP/IP 通訊協定的層次。(本題 10 分，占 10%)

