

國立澎湖技術學院九十三學年度轉學生考試資訊管理學系二年級專業科目資訊管理概論試題
三年級

TRUE/FALSE(20%)

- () 1. Hardware consists of computer equipment and programs used to perform input, processing and output.
- () 2. Networks are made up of connected computers and computer equipment in a building, around the country, or around the world to enable electronic communications.
- () 3. A business's technology infrastructure includes hardware, software, procedures, and people.
- () 4. In information systems, feedback is output that is used to make changes to input or processing activities.
- () 5. Artificial intelligence is a field where the information systems group is organized into decision making support group.
- () 6. The five-force model, defined by Michael Porter, describes key factors that can lead to the attainment of a company having a competitive advantage.
- () 7. Intranets are internal networks based on Internet technologies.
- () 8. An Extranet is a private network that allows outside use of a company's Intranet by customers and business partners.
- () 9. Management information systems are designed to include only one internal department, and should not cross departmental lines.
- () 10. Generally, databases are designed to reduce redundancy, however, planned redundancy is sometime needed to make databases more efficient.

MULTIPLE CHOICE(20%)

- () 1. An information system (IS) is a set of interrelated components that perform which of the following?
 - a. collect data
 - b. manipulate and disseminate data
 - c. provide feedback mechanism
 - d. all of the above
- () 2. The least expensive transmission medium is
 - a. coaxial cable.
 - b. Fiber-optic cable.
 - c. twisted-pair wire cable.
 - d. microwave transmission.
- () 3. The device that allows several telecommunications signals to be transmitted over a single communications medium at the same time is called a
 - a. modem.
 - b. fax modem.
 - c. multiplexor.
 - d. PBX.
- () 4. The communications technology that provides faster speeds (up to 500 Kbps) is _____ technology.
 - a. dedicated line
 - b. digital subscriber line (DSL)
 - c. cable-modem
 - d. switched line
- () 5. The most expensive type of telecommunications line/service is
 - a. ISDN.
 - b. DSL.
 - c. cable modem.
 - d. T1.
- () 6. The set of rules for the exchange of data between computers is a(n)
 - a. protocol.
 - b. operating system.
 - c. management system.
 - d. none of the above.
- () 7. The network considered to be the beginning of the Internet was
 - a. WWW.
 - b. Instinet.
 - c. ARPANET.
 - d. none of the above.
- () 8. Decision support systems are designed to produce
 - a. lower costs
 - b. better products and services
 - c. higher profits
 - d. all of the above
- () 9. The network that connects computers within the same building or plant is a(n)
 - a. international network.
 - b. host network.
 - c. local area network.
 - d. wide area network.
- () 10. Which of the following is not a database model?
 - a. Hierarchical
 - b. Relational
 - c. spreadsheet
 - d. network

簡答題：(30%)

1. 試列舉出五個你認為功能較強的搜索引擎(Search Engine)。
2. 試說明電子商務的種類有哪些？
3. 試說明依資料庫架構之不同，可分為哪三種資料庫？
4. 常說的多媒體包含哪些媒體？
5. 根據 VPN 所發揮的作用，可以將 VPN 分為三類？
6. 行程總共包含哪五種狀態？

問答與計算題：(30%)

1. ADC(Analog-Digital Conversion)稱為類比-數位資料轉換，請問將 3 分鐘聲音資料，進行立體音、16 位元、44KHz 取樣，其檔案大小為多少 K？
2. 漢明碼中要傳遞的原始資料是 1 101 011011，若接收端收到的資料為 10101010011011，請問所接收資料是否有誤？若有，是哪一個位元出了錯誤？

3. 請計算 A5F*232B 的值。