

國立屏東科技大學 九十七 學年度碩士班甄試招生考試

資訊管理系 計算機概論與資管導論 試題

一、選擇題 (單選：請選出最適當的答案，每題5分，答錯不倒扣)

1. Executive support systems (ESS):
  - (A) serve the strategic level of the organization
  - (B) address structured decisions
  - (C) involve specific applications and capabilities
  - (D) are mainly oriented toward internal organizational events
  - (E) employ primitive graphics software
2. In general, management information systems (MIS):
  - (A) are reporting and control oriented
  - (B) have extensive analytical capabilities
  - (C) are future oriented
  - (D) are relatively flexible
  - (E) possess an external orientation
3. Strategic information systems change:
  - (A) the number of clerical employees hired by the organization
  - (B) the goals, operations, products, services, or environmental relationships of the organization
  - (C) the power of middle management in the organization
  - (D) the power of the company's C.E.O.
  - (E) the power of the company's data processing department
4. A database is developed using:
  - (A) query language
  - (B) traditional file environment
  - (C) data manipulation language
  - (D) data definition language
  - (E) data dictionary
5. Which of the following statements is false?
  - (A) The system life cycle approach is costly and time consuming.
  - (B) The system life cycle approach is inflexible.
  - (C) Prototyping is a refined version of the final system.
  - (D) Prototyping is a method that can reduce the time, cost and efficiency in specifying requirements.
  - (E) The risk of outsourcing is loss of control over one's own information systems functions.
6. Which of the following statements is false?
  - (A) Successful artificial intelligence systems are based on human expertise and knowledge.
  - (B) Artificial intelligence can be defined as the effort to develop computer-based hardware and software systems that behave as humans.
  - (C) A program that can't be easily solved by humans is more appropriate for an expert system.
  - (D) Expert systems try to capture knowledge and rules of a human expert for a limited and well-defined set of problems.
  - (E) In expert systems, forward reasoning starts with a premise and searches through the rule base for a solution.

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二、Explain each of the following terms. (每題 5 分)

- (1) RFID
- (2) RAID
- (3) OLAP
- (4) SPOOLING
- (5) DNS
- (6) BPR
- (7) TCP/IP
- (8) Half Duplex

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三、請撰寫二正整數  $a, b$  之最大公因數(GCD)的程式碼 (選擇你熟悉的一種程式語言來撰寫)。

(10 分)

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四、請以一維陣列 [6, 2, 8, 5, 10, 9, 12, 1]說明快速排序法(Quick sort)的實際遞迴演算程序。(10 分)

五、請說明資料庫正規化(Normalization)的目的為何? 視界(View)的涵義與用途? (10 分)

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