國立虎尾科技大學九十七學年度研究所(碩士班)入學試題

所別:資訊管理系碩士班

科目:考試科目2 (管理資訊系統)

注意事項:

(1)本試題共有選擇題三十題,每題二分,共六十分;問答題五題,每題八分, 共四十分,合計一百分。

(2) 請依序作答在答案卷上並註明題號。

## 一. 選擇題(單選題,每題兩分)

1. Antivirus software is usually effective only against:

- a. worm viruses. b. viruses spread on the Internet.
- c. macro viruses. d. viruses known when the software is written.
- e. script viruses. f. none of the above.
- 2. Disaster recovery firms provide:
  - a. hot sites with spare computers where subscribers can run critical applications in an emergency.
  - b. backup facilities.
  - c. mainframe applications.
  - d. extra personnel in case of disaster.
  - e. new computers and data to replace the materials lost.
  - f. none of the above.
- 3. Software controls:
  - a. ensure that computer hardware is physically secure.
  - b. ensure that programmed procedures are consistently and correctly applied to the storage and processing of data.
  - c. ensure that data files are not subject to unauthorized access, change, or destruction while they are in use or in storage.
  - d. use formal standards, rules, procedures and control disciplines to ensure the organization's controls are properly executed and enforced.
  - e. perform overall control functions for the programs that directly process data and data files.
  - f. none of the above.

- 4. Computer operations controls:
  - a. ensure that computer hardware is physically secure.
  - b. ensure that programmed procedures are consistently and correctly applied to the storage and processing of data.
  - c. ensure that data files are not subject to unauthorized access, change, or destruction while they are in use or in storage.
  - d. use formal standards, rules, procedures and control disciplines to ensure the organization's controls are properly executed and enforced.
  - e. perform overall control functions for the programs that directly process data and data files.
  - f. none of the above.
- 5. The primary tool of structured analysis is:
  - a. linear methodology. b. systems analysis.
  - c. packets of data. d. phased hierarchies.
  - e. the data flow diagram (DFD).
  - f. none of the above.
- 6. To be used effectively, CASE tools require:
  - a. tied data elements. b. front-end systems.
  - c. organizational discipline. d. a lot of time to implement.
  - e. large groups of personnel to work with them.
  - f. none of the above.
- 7. The formula: (Original Investment/Annual net cash flow)= number of years is the one used for the:
  - a. payback method. b. profitability index.
  - c. net present value. d. cost-benefit ratio.
  - e. internal rate of return. f. none of the above.
- 8. A paradigm shift involves:
  - a. rethinking the nature of the business itself.
  - b. rethinking the nature of the information systems process itself.
  - c. rethinking the nature of the organization itself.
  - d. a and b.
  - e. a and c.
  - f. none of the above.

- 9. Work flow and document management software:
  - a. automates processes involved in routing documents.
  - b. allows two or more people to work simultaneously on the same document.
  - c. can affect the content of the document.
  - d. a and b.
  - e. a, b and c.
  - f. none of the above.
- 10. TQM focuses on:
  - a. mid-level management.
  - c. production employees.
- b. a series of continuous improvements.
- d. eliminating design errors.
- e. decreasing cycle times.
- f. none of the above.

- 11. Unit testing:
  - a. includes all the preparations for the trials.
  - b. tests the functioning of the system as a whole in order to determine if discrete modules will function together as planned.
  - c. tests each program separately.
  - d. provides the final certification that the system is ready to be used in a production setting.
  - e. asks end-users to evaluate the system.
  - f. none of the above.
- 12. The use of \_\_\_\_\_\_ is most likely to produce systems that fulfill user requirements.
  - a. documentation b. prototyping
  - c. a pilot study d. a parallel strategy
  - e. a phased approach f. none of the above.
- 13. In the systems lifecycle, the end product of programming is the:
  - a. systems performance tests. b. design specifications.
  - c. user sign-off. d. program specifications and codes.
  - e. systems proposal report. f. none of the above.
- 14. Object-oriented software is expected to:
  - a. reduce the time and cost of writing software.

- b. reduce testing needs.
- c. use the system life cycle.
- d. develop IS plans.
- e. fit the business paradigm better.
- f. none of the above.
- 15. The types of information that can be garnered from datamining include:
  - a. sequences, classifications, and clusters.
  - b. model-driven and data-driven.
  - c. associations and forecasts.
  - d. a and c.
  - e. a, b and c.
  - f. none of the above.
- 16. When a group interacts using a GDSS, prioritizing uses the following tools:
  - a. policy formation, stakeholder identification.
  - b. enterprise analyzer, graphical browser, group dictionary.
  - c. idea organizer, issue analyzer, group writer.
  - d. brainstorming, topic commenter, group outliner.
  - e. vote selection, alternative evaluation questionnaire, group matrix.
  - f. none of the above.
- 17. "E-learning" is the term used to describe:
  - a. training in network technologies.
  - b. surfing the Internet.
  - c. training delivered over a distance.
  - d. on-line instruction delivered over the Internet or private networks.
  - e. what companies are finding out about new technologies.
  - f. none of the above.
- 18. A relational DBMS model:
  - a. combines the hierarchical model and the network model.
  - b. treats data as if they were stored in two-dimensional tables.
  - c. makes reports more difficult to program.
  - d. shares common data elements with application programs.
  - e. a and d.
  - f. none of the above.

- 19. Which of the following is the best way for a firm to sustain a competitive advantage?
  - a. continuously improving the product or service
  - b. building alliances
  - c. creating standards
  - d. lowering prices
  - e. none of the above
- 20. One-click ordering was patented by \_\_\_\_\_.
  - a. Amazon b. Sabre
  - c. eBay d. Priceline
  - e. none of the above
- 21. Which is not offered as a strategy to achieve sustainable competitive advantage?
  - a. higher price b. product differentiation
  - c. reduce costs d. reduce costs
  - e. none of the above
- 22. PeopleSoft, Baan, and SAP all provide \_\_\_\_\_ software.
  - a. graph processing b. database
  - c. ERP d. word processing
  - e. none of the above
- 23. Which of the following techniques finds patterns where one event leads to another later event?
  - a. Sequence path analysis b. Classification
  - c. Clustering d. Forecasting
  - e. none of the above
- 24. Which of the following techniques finds groups of facts not previously known?
  - a. Sequence path analysis b. Classification
  - c. Clustering d. Forecasting
  - e. none of the above
- 25. The combined storage of both data and the procedures that manipulate them is referred to as \_\_\_\_\_.

a. encapsulation	b. inheritance
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- c. Redundancy d. integrity
- e. none of the above

26. The \_\_\_\_\_ describes the structure of the database being designed: the names and types of fields in each record type and the general relationships among different sets of records or files.

- a. model b. schema
- c. hierarchy d. ER diagram
- e. none of the above

27. \_\_\_\_\_ keys link one table to another within the database.

- a. Primary b. Foreign
- c. Composite d. Related
- e. none of the above

28. In a \_\_\_\_\_ conversion the old system is discarded and the new one takes over the entire business operation for which it was developed.

- a. parallel b. phased
- c. cut over d. pilot
- e. none of the above

29. A(n) \_\_\_\_\_ is an encrypted digest of the text that is sent along with a message, usually a text message, but possibly one that contains other types of information, such as pictures.

- a. digest signature b. digital certificate
- c. digital signature d. digest manifest
- e. none of the above
- 30. \_\_\_\_\_ is the process of ensuring that the person who sends a message to or receives a message from you is indeed that person.
  - a. Naming b. Authorization
  - c. Identification d. Authentication
  - e. none of the above

## 二、問答題 (共五題,每題八分)

- 1. Discuss at least four ways in which information systems can contribute to the firm's commitment to total quality management. (8%)
- 2. Define the systems development model, listing the six steps to be taken using this model. Describe the activities engaged in at each step. (8%)
- 3. Discuss the uses of RAD and JAD. (8%)
- 4. List several advantages of outsourcing. (8%)
- 5. Explain how benchmarking can be a testing tool and provide an example of how it is used. (8%)