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.
- b. a series of continuous improvements.
- c. production employees.
- 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.
- is most likely to produce systems that ful-12. The use of _ fill 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.

advantage?	the best way for a firm to sustain a competitive ang the product or service	
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 SAF a. graph processing c. ERP e. none of the above	all provide software. b. database d. word processing	
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		

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	a. encapsulation	b. inheritance	
	c. Redundancy e. none of the above	d. integrity	
26.		tructure of the database being designed: the in each record type and the general relation-of records or files. b. schema d. ER diagram	
27.	keys link one table to	another within the database.	
	a. Primary	b. Foreign	
	c. Composite e. none of the above	d. Related	
28.		old system is discarded and the new one takes eration for which it was developed. b. phased d. pilot	
29.	· · · ———	d digest of the text that is sent along with a nessage, but possibly one that contains other as pictures. b. digital certificate d. digest manifest	
	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%)

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- 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%)