國立屏東科技大學 九十三 學年度 碩士班 甄試招生考試 計算機概論與資管導論 試題

一、 選擇題 (單選題,每題5分,答錯倒扣1分)

- 1. One type of a knowledge base:
 - a. is a collection of rules
 - b. is a collection of facts
 - c. is a collection of cases
 - d. is program to search rules and facts
 - e. is a relationship between 2 concepts
- 2. A detail data flow diagram may include a process specification that:
 - a. contains information about individual pieces of data in the diagram
 - b. is a graphic description of the data flow
 - c. shows the logic for the process depicted in the diagram
 - d. is an abstraction of the major functions of system
 - e. all of the above
- 3. User-developed systems are more likely to:
 - a. be adequately tested and documented
 - b. lack proper quality assurance standards and controls
 - c. have a lengthy conversion period
 - d. be controlled and have audit trails
 - e. all of the above
- 4. Prototyping is all of the following except:
 - a. a method that can reduced the time, cost and efficiency in specifying requirements
 - b. a working model of a system
 - c. a refined version of the final system
 - d. more explicitly iterative than the conventional "life cycle"
 - e. no exceptions it is all of the above
- 5. The post-implementation step in the system life cycle involves:
 - a. maintaining and updating the system
 - b. hooking up the PCs and minis to the mainframe computer
 - c. using the new system and evaluating it after it is installed
 - d. paying for the system and using it for the first time
 - e. all of the above
- 6. A project with a high level of risk is one where:
 - a. structure is high, technology level is high and size is large
 - b. structure is low, technology level is high and size is small
 - c. structure is low, technology level is low and size is large
 - d. structure is low, technology level is low and size is small
 - e. all projects should be considered as high risk
- 7. A data warehouse is a database, where:
 - a. data are stored on a single platform
 - b. it contains recent data as well as historical data
 - c. data are stabilized for decision making
 - d. data are organized around major business informational subjects
 - e. all of the above

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- 8. Structured query language is a:
 - a. application program
 - b. system program
 - c. data manipulation language
 - d. data definition language
 - e. data dictionary
- 9. Which of the following statement is true about Java:
 - a. Java is an object oriented programming language
 - b. Java can run on any computer and operating system
 - c. Java was specifically developed for use on the Internet
 - d. Java will change the way software is distributed
 - e. all of the above
- 10. Dividing the processing work for transaction-based application among mainframes and microcomputers is known as:
 - a. downsizing
 - b. parallel processing
 - c. central processing
 - d. cooperative processing
 - e. none of the above
- 11. Unstructured decisions are those in which the decision maker must:
 - a. discover a routine solution to the problem
 - b. execute repetitive analyses
 - c. provide judgment, evaluation, and insight into the problem
 - d. establish a definite procedure for handling the problem
 - e. none of the above
- 12. Organizational culture generally refers to:
 - a. the central values and norms of the organization
 - b. the organization's principal division between management and labor
 - c. the ethnic backgrounds of the company's employees
 - d. the types of television programs and museum events that the organization sponsors
 - e. the psychological profile of top management
- 13. Under the value chain model, the following are all primary activities except:
 - a. human resources
 - b. outbound logistics
 - c. sales and marketing
 - d. operations
 - e. none of the above
- 14. The search for opportunities to develop strategic information systems should be initiated by:
 - a. clerical personnel
 - b. technical staff members
 - c. middle management
 - d. senior managers
 - e. consultants

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- 15. If the recursive formula f(n, m) = f(n-1, m) + f(n, m-1), f(n, 1) = 1, f(n, n) = n, then f(3, 2) = ?
 - a. 3
 - b. 4
 - c. 5
 - d. 6
 - e. none of the above
- 二、 Explain the following terms in details. (每題 5 分)
- 1. Knowledge Management
- 2. Object-Oriented Programming
- 3. Internet Protocol
- 三、 請比較 Bucket Sort, Insertion Sort, Mergesort, Quicksort, Heapsort 五種排序方法之 特性。(10 分)