國立屏東科技大學 九十五 學年度 碩士班 甄試招生考試資訊管理系計算機概論與資營導論 試題

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一、 選擇題 40%(單選題,每題4分,答錯倒扣1分)

- 1. IO device controller informs CPU when it finished its operation by causing an
 - (a) interrupt (b) trap (c) buffer (d) stack
- 2. In RR scheduling, if the time quantum is infinite large, the algorithm's performance will be similar to
 - (a) SJF (b) priority (c) multi-level queue (d) FCFS
- 3. Which protocol is used for carrier transmission in wireless LAN?
 - (a) token ring (b) TCP (c) CSMA/CD (d) CSMA/CA
- 4. In IPv6, an IP address is composed by
 - (a) 32 (b) 64 (c) 128 (d) 256 bils. NREGISTERED
- 5. Router is a device that forwards data packets along networks. Routers can determine the best path for forwarding the packets. This routing function is defined in which layer in the OSI 7 layers model?
 - (a) transport (b) network (c) data link (d) physical layer
- 6. Which information system is one kind of "IOIS"?
 - (a) SCM (b) CRM (c) MIS (d) EIP
- 7. Which information technology would have the greatest impacts on data interchange in B2B e-commerce?
 - (a) HTML (b) XML (c) Java (d) .NET
- 8. What is the most important difference between m-commerce and e-commerce?
 - (a) programming technology (b) network technology (c) data base (d) system development process
- 9. Which information technology will have the greatest impacts on transaction processing in a retail store?
 - (a) WWW (b) MIS (c) RFID (d) Bar code
- 10. Which one is NOT a major component of DSS?
 - (a) interactive user interface (b) data base (c) model base (d) network component

二、問答題 60% (每題10分)

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- 1. Convert the following infix expression into (1) tree (2) postfix representation.

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 (A+B)-C*(D+E)
- 2. (1) What is "semaphore" technology which is used to solve the process synchronization problem?
 - (2) Please explain how semaphore can ensure "mutual exclusion" between two processes.

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3. Consider the following relations. The "Student" relation shows the fundamental information of students and "Class" relation contains the classes' information in a school.

Student (<u>snum</u>: integer, sname: string, major: string, level: string, age: integer)
Class (<u>name</u>: string, room: string, faculty id: integer)

Please write the following queries in Col. Applicates should be printed in any of the answers.

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- (1) Find the names of all Junior (level=JR)
- (2) Print the level and the average age of students for that level, for all levels except JR.
- 4. Please explain the following MIS terminologies:
 - (1) ERP (2) SIS
- 5. (1) What is data mining? (2) What is its role in CRM?
- 6. (1) What is KM? (2) Please describe at least three KM activities in a company in detail.

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