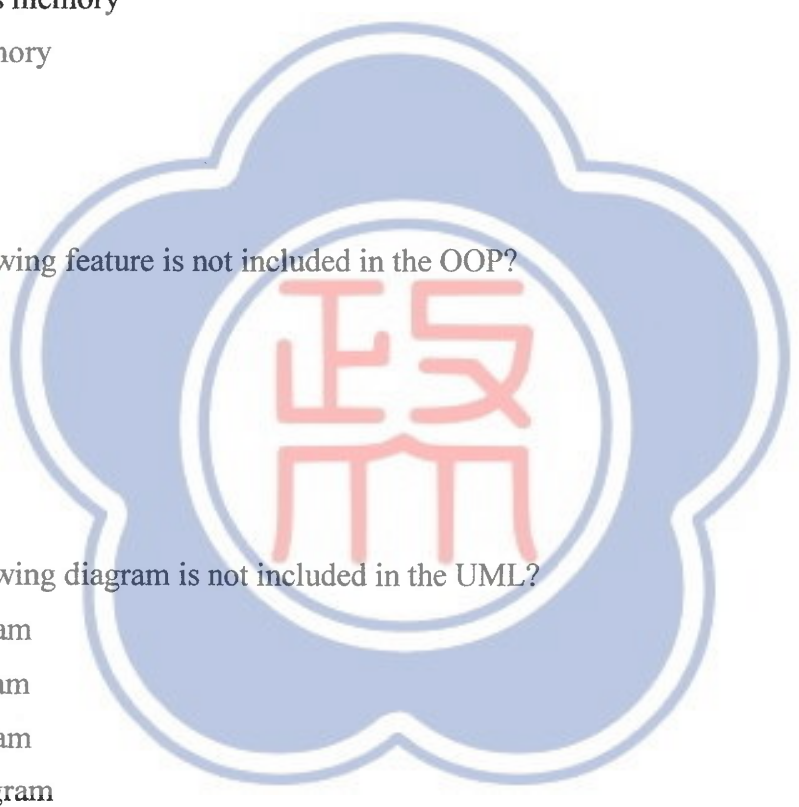


考 試 科 目	計算機概論	系 所 別	資訊管理學系/資管組	考 試 時 間	2 月 5 日(五) 第二節
---------	-------	-------	------------	---------	----------------

I. Multiple Choice (40%, 4 points for each)

1. In an operating system, multiprogramming without swapping is called ____; whereas multiprogramming with swapping is called ____.
 - a. partitioning, paging
 - b. partitioning, segmenting
 - c. queuing, paging
 - d. queuing, segmenting
2. An operating system can place resource restrictions on processes to prevent ____; however, too many resource restrictions can cause ____.
 - a. thrash, segmentation
 - b. segmentation, thrash
 - c. starvation, deadlock
 - d. deadlock, starvation
3. ____ is a unary operator, and ____ is a binary operator.
 - a. Intersection, difference
 - b. Intersection, update
 - c. Project, difference
 - d. Project, update
4. A(n) ____ backup copies the files that have changed since the last full backup.
 - a. striping
 - b. mirroring
 - c. incremental
 - d. differential
5. Which of the following is NOT true about the NoSQL database:
 - a. Does not require a fixed schema
 - b. Horizontally scalable
 - c. Non-relational database management system
 - d. Best suited for complex queries

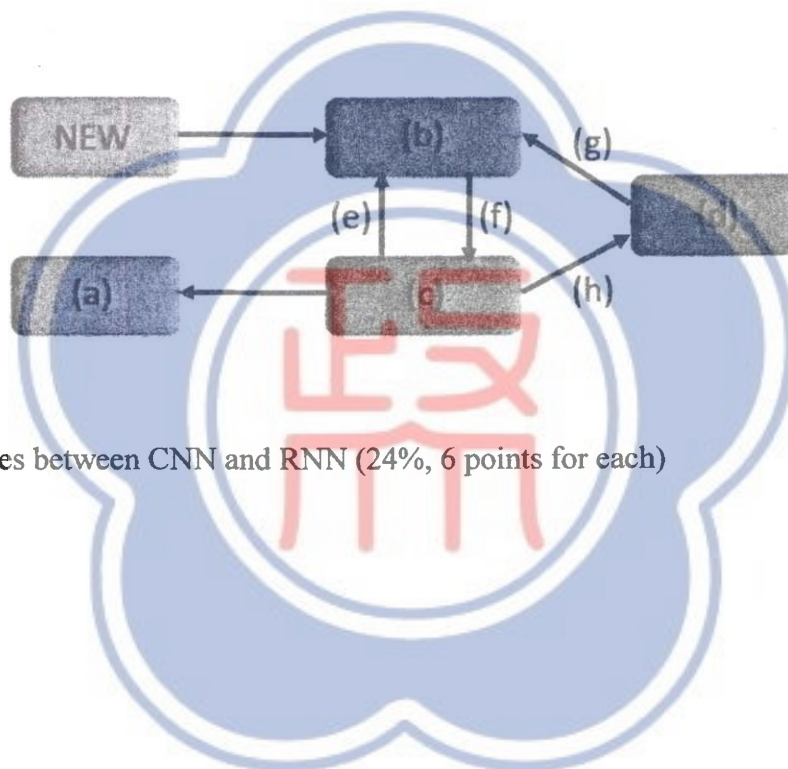
考 試 科 目	計算機概論	系 所 別	資訊管理學系/資管組	考 試 時 間	2 月 5 日(五) 第 二 節
---------	-------	-------	------------	---------	------------------

6. ____ memory is able to provide related information
- Associative
 - Assistive
 - Horizontal
 - Vertical
7. ____ stores the information that most readily available for the CPU operation.
- Random-access memory
 - Read-only memory
 - Cache
 - Register
8. Which of the following feature is not included in the OOP?
- Abbreviation
 - Encapsulation
 - Inheritance
 - Polymorphism
9. Which of the following diagram is not included in the UML?
- Behavior diagram
 - Essential diagram
 - Structure diagram
 - Interaction diagram
10. When analyzing customers' transactional data, ____ helps you to examine products that have an affinity for each other.
- Accumulated analysis
 - Accustomed analysis
 - Association analysis
 - Asynchronous analysis
- 

考 試 科 目	計算機概論	系 所 別	資訊管理學系/資管組	考 試 時 間	2 月 5 日(五) 第 二 節
---------	-------	-------	------------	---------	------------------

II. Answer the following questions (60%)

1. Calculate the big-O notation for taking an array of N random numbers and inserting them into an empty priority queue (4%)
2. The node sequence KSGJVOLTN is the result of inorder traversal, draw the tree (4%)
3. The node sequence DLZSHFCOE is the result of postorder traversal, draw the tree (4%)
4. Fill in the blanks of the OS process state diagram and briefly explain each component (24%, 3 points for each)



5. Compare the differences between CNN and RNN (24%, 6 points for each)

- a) Definitions
- b) Type of data
- c) Length of input
- d) Applications

備

註

- 一、作答於試題上者，不予計分。
- 二、試題請隨卷繳交。