

政治大學

7. Which of the following is *Not* true?

- a) Swapping represents a system spends much time on paging
- b) An OS applies the paging approach to transfer data between memory and disk
- c) A hard disk will be divided into several distinct drives during the partitioning processes
- d) Disk striping can be used to divide data into blocks across multiple storage devices.

8. Which of the following is *Not* true about storage devices?

- a) Defragmentation can enhance both hard disk and SSD performance
- b) A machine may include both hard disk and SSD devices
- c) The plug and play approach allows an OS to configure a new device
- d) An OS may use both main memory and virtual memory

5.(10%) compare the speed differences among main memory, virtual memory, cache, tape, and register (please sort the access time **from fastest to lowest**).

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3. _____ initiates the execution of an operating system and the _____ activates the required functions associated with peripheral devices.

- a) boot loader; driver
- b) system manager; driver
- c) boot loader; multiprocessor
- d) system manager; multiprocessor

3. (10%, 5 points for each) given the tables below (Prodcut_Name and Prodcut_Price), interpret the result of the SQL query:

Prodcut_Name

ProductID	Name
P01	Keyboard
P02	Mouse
P03	Speaker
P04	Cable

Prodcut_Price

ProductID	Price	Unit
P01	70	60
P02	55	50
P03	50	30
P04	65	80

```
SELECT Name
FROM Prodcut_Name
WHERE productid IN
(SELECT productid
 FROM ProdcutPrice
 WHERE price > 50 AND Unit > 50
)
ORDER BY Name ASC;
```

```
SELECT avg(price), count(price)
FROM Prodcut_Name a, Prodcut Price b
WHERE a.productid = b.productid AND b.price >
```

```
(SELECT AVG(price)
  FROM Prodcut_Price
);
```

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