

# 東吳大學 111 學年度碩士班研究生招生考試試題

第1頁，共3頁

系級	資訊管理學系碩士班	考試時間	100 分鐘
科目	計算機概論	本科總分	100 分

※一律作答於答案卷上(題上作答不予計分)；並務必標明題號，依序作答。

**除專業名詞外，請以中文作答**

(一)、名詞解釋(20分)

1. SQL
2. Virtual Private Network (VPN)
3. Software Development Life Cycle (SDLC)
4. Internet of Things (IoT)
5. stable sorting

(二)、選擇題(25分)

1. Which of the following is NOT secondary storage device?
  - A) random access memory
  - B) solid state disks
  - C) optical disk
  - D) magnetic tape
2. Which of the following criteria is more important for an interactive system?
  - A) CPU utilization
  - B) Response time
  - C) Turnaround time
  - D) Throughput
3. Which of the following is nonvolatile?
  - A) register
  - B) cache
  - C) main memory
  - D) hard-disk drive
4. The \_\_\_\_\_ is a widely used method of visualizing and documenting software systems design.
  - A) Unified Modeling Language (UML)
  - B) total cost of ownership (TCO)
  - C) functional decomposition diagram (FDD)
  - D) Rapid Economic Justification (REJ)

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第2頁，共3頁

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5. A \_\_\_\_\_ involves breaking a project down into a series of smaller tasks.

- A) work breakdown structure (WBS)
- B) value breakdown structure (VBS)
- C) risk breakdown structure (RBS)
- D) concept breakdown structure (CBS)

### (三)、問答題

1. 網路 OSI 七層架構是哪七層，請從底層依序列出(14 分)

2. 請說明網路協定 UDP 與 TCP 的差異(10 分)

3. What is the output of the following Java code? (5 分)本題可寫回傳值或簡述執行邏輯。

```
int x = 10;
while (x > 0)
    x++;
System.out.println("x is " + x);
```

4. Rank the following storage systems from slowest to fastest: (5 分)

- a. Hard-disk drives
- b. Registers
- c. Optical disk
- d. Main memory
- e. Nonvolatile memory
- f. Magnetic tapes
- g. Cache

5. 請填寫下面電腦 2、8、16 進制轉換或計算的正確答案。

(1)  $(345.67)_8 = (\text{_____})_{16}$  (5 分)

(2)  $(1011 \text{ AND } 1101) \text{ OR } (1011 \text{ XOR } 1101)$  的結果為何? (5 分)

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6. PERT/CPM chart is an important system analysis and project management tool. The below chart is PERT/CPM shows a WBS with 11 tasks. Note that dependent tasks can have one predecessor task or several.

(1) Point out the critical path. (5 分)

(2) Why is the critical path important? (6 分)

