

東吳大學 115 學年度碩士班招生考試試題

第 1 頁，共 2 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。

一、選擇題(每題 4 分，共 40 分)

1. Which of the following is responsible for translating source code into object code?

- A. Interpreter
- B. Compiler
- C. Operating System
- D. Loader

2. Which memory type is fastest in accessing data?

- A. Cache memory
- B. Main memory (RAM)
- C. CPU registers
- D. Secondary storage

3. Which device is primarily used for long-term data storage?

- A. Cache memory
- B. RAM
- C. CPU register
- D. Hard disk drive

4. In the OSI model, which layer is responsible for reliable end-to-end communication?

- A. Network layer
- B. Transport layer
- C. Session layer
- D. Application layer

5. Which of the following is an example of Infrastructure as a Service (IaaS)?

- A. Using Google Docs online
- B. Renting virtual machines from AWS
- C. Developing applications on Heroku
- D. Using Microsoft Outlook

6. Which data structure follows the First-In-First-Out (FIFO) principle?

- A. Stack
- B. Tree
- C. Queue
- D. Graph

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第 2 頁，共 2 頁

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7. Which of the following attacks involves repeatedly guessing passwords until the correct one is found?

- A. Phishing
- B. Man-in-the-middle
- C. Brute-force attack
- D. Trojan attack

8. Which network topology uses a central device to connect all other devices?

- A. Ring
- B. Mesh
- C. Bus
- D. Star

9. Which of the following is a characteristic of SSD storage?

- A. Uses magnetic disks
- B. Contains moving parts
- C. Faster access time than HDD
- D. Lower cost per GB than HDD

10. Which component of the CPU directs the operation of the processor?

- A. Arithmetic Logic Unit (ALU)
- B. Register
- C. Control Unit
- D. Cache

二、簡答題(每題 15 分，共 60 分，可中文或英文作答)

1. What is the difference between a program and a process?

2. Compare TCP and UDP in terms of reliability, speed, and typical applications.

3. Convert the decimal number 88 into an 8-bit binary number.

4. Explain the difference between machine learning and deep learning, and give one application example for each.