系級	資訊科學系碩士在職專班	考試時間	100 分鐘
科目	計算機系統	本科總分	100 分

10% 1. What are the main differences between a Complex Instruction Set Computer (CISC) and a Reduced Instruction Set Computer (RISC)?

12% 2. (a) What is a context switch?
(b) What is the critical section problem?

10% 3. How might a timesharing processor scheduler's policy differ from a policy used in a batch system?

15% 4. (a) What is deadlock?
(b) What is the main difference between deadlock and starvation?
(c) What is a safe state?

12% 5. (a) What is multiprogramming?
(b) What is the main advantage of multiprogramming?
(c) What is the main disadvantage of multiprogramming?

11% 6. What is the difference between an interpreter and a compiler?

10% 7. (a) Describe the producer/consumer problem.
(b) Give two examples of producer/consumer pairs.

10% 8. Describe the differences between object code and machine language.

10% 9. (a) What is a Compiler-Compiler?
(b) What is a self-Compiler?