

# 九十八學年度四年制二、三年級轉學生招生考試

## 四技二年級 資訊工程系

### 第三節 專業科目 (二) 計算機概論 試題

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#### 注意事項：

1. 本試題共 5 題，配分共 100 分。
2. 請標明大題、子題編號作答，不必抄題。
3. 全部答案均須在答案卷之答案欄內作答，否則不予計分。

1. Define each of the following terms. (4% each)

- a. preemptive scheduling
- b. cohesion
- c. cryptography
- d. combinational circuit
- e. biometrics
- f. metalanguage
- g. packet switching
- h. schema
- i. type coercion
- j. parser
- k. imperative paradigm
- l. spoofing
- m. thrashing
- n. strong typing
- o. run-length encoding

2. Build a binary search tree that results from inserting the following strings in this order:

Mark, Steven, Gloria, Eric, Sarah, Judy, Howard, Sophia, Jim, Roy. (10%)

3. Show the logic diagram and the truth table for a full adder. (10%)

4. Describe the three essential ingredients of any of object-oriented language, i.e., encapsulation, inheritance, and polymorphism. (10%)

5. Is the two's complement of a number always a negative number? Explain. (10%)