題號: 430

節次:

國立臺灣大學 107 學年度碩士班招生考試試題

科目: 計算機概論(B)

題號:430

共1頁之第1頁

1. (20%) What is a Turing machine?

2. (20%) What is a genetic algorithm?

- 3. (20%) Please design an optimized logic circuit to transform a 4-bit Binary-Coded Decimal to Excess 3 code.
- 4. (20%) What is a GPU and how does it work?
- 5. (20%) Please transform the following table to comply with the second normal form:

## **CREATE TABLE CUSTOMERS(**

CUST\_ID INT

NOT NULL,

CUST\_NAME VARCHAR (20)

NOT NULL,

ORDER\_ID INT

NOT NULL,

ORDER\_DETAIL VARCHAR (20) NOT NULL,

SALE\_DATE DATETIME,

PRIMARY KEY (CUST\_ID, ORDER\_ID)

**)**;

## 試題隨卷繳回