編號: 1 403 系所: 交通管理科學系丙組

科目:計算機概論

本試題是否可以使用計算機: □可使用 · □ 不可使用 (請命題老師勾選)

Each problem is worth of 10 points. If calculations are required, please include the calculation process then provide the final answer with underline.

- 1. Find the simplest solution of F=x'yz+xy'z'+xyz+xyz'.
- 2. Find the checksum of the hexadecimal value 96EB.
- 3. The subnet mask for a class C network is 255.255.255.192. How many subnetworks are available?
- 4. What are the five components of a computer?
- 5. 2385 in decimal = (
- ) in binary?
- 6. What is entropy in data compression? What is Huffman encoding?
- 7. What are the four criteria for network security? Please describe Certification Authority in computer network.
- 8. Find all the functional dependencies of the following table. (Customernumber, Customername, Balance, Creditlimit, Salesrepnumber, Salesreplastname, Salesrepfirstname)
- 9. Please describe two methods to prevent deadlocks (in O.S. or DBMS).
- 10. What is the System Development Cycle?