國立嘉義大學 100 學年度

資訊管理學系碩士班 (乙組)招生考試試題

科目:計算機概論

- 1. Please convert the floating-point number 69.3125 into binary using 32-bit Excess-127 representation (IEEE-754 standard). (5 分)
- 3. Assume that there is a bit string 10000000_2 , please answer the following questions:
 - (a) What is its one's complement? (4 分)
 - (b) What is its two's complement? (4 分)
 - (c) Please interpret the bit string in decimal if the number is stored as a two's complement integer. (6 分)
- 4. Please briefly define "word size" and specify what generally determines the size of a word in a computer system. (8 分)
- 5. Please briefly compare the interpreter with the compiler. (8 %)
- 6. If a binary search is used to find an item in an index file consisting of N items (N is large), what is the mean number of comparisons required to locate a specific index entry? (5 分)
- 7. What address class is the IP address 140.130.81.11 in? (5 分)
- 8. Please name and draw the diagrams for any three common computer network topologies. (9 %)
- 9. Please specify which layers in the OSI reference model that TCP/IP correspond to. (8 分)
- 10. Please briefly describe what "Class" and "Object" are in OO programming.(8 分)
- 11. Please briefly define the following terms : (25 分)
 - (a) B2B (b) C2C (c) P2P Networking (d) Point-to-Point Protocol
 - (e) Direct Memory Access