## 89 學年度 國立成功大學工程科學系事系 計算機概論 試題 頁 頁

- 1. Explain the following terms (20%)
  - (a) Accumulator (b)Buffer (c)Machine language (d)Bubble sort
  - (e)Numerical analysis
- 2. Number systems conversion (15%)
  - (a)Binary to Decimal
- $(10110110)_2 = ($
- )10
- (b) Decimal to Hexadecimal (1289)10 = (
- 0.16

- (c) Decimal to Binary
- (15.625)ia = (
- 3.(a) What is called "Flow Chart"? (5%)
  - (b)Draw a flow chart to explain the total sum of computing 1+2+3+...+99+100 (5%)
- 4.(a)Describe the key elements for organizing a database system ? (5%)
  - (b)Explain three levels for a database architecture ? (5%)
  - (c) What is the "data dictionary" for a database ? (5%)
- 5.(a)Describe the key elements for a data communication system ? (5%)
  - (b) How to perform communication for two computers in a remote distance ? (5%)
  - (c) What is called multiplexing techniques? (5%)
- 6.(a)What are the main functions for a computer operating system ? (10%)
  - (b) Give your answer by examples for an "interrupt" during computing process? (5%)
- 7. Explain Intranet and Internet , what are the difference between them ? (10%)