1. What is the computer system ? Give some important history-events of the units of a computer system.　　　　　　　　　　10%

2. What are the machine language, the assembly language, and the high-level language? State the conditions in choosing the suitable language for programming.　　　10%

3. Give the steps from the beginning of programming to the end of computer execution.　15%

4. Explain the structured programming. Give an example to change a non-structured program to an equivalent structured program.　　　　　15%

5. Devise a recursive algorithm to solve the Tower of Hanoi problem for n disks and prove formally that your algorithm is correct.　　　　　15%

6. How many kinds of file organization? State the advantages and the dis-advantages for each kind of the file organization.　　　　　10%

7. Give the structure of a DBMS(data base management system).　　15%

8. What are the zoned decimal and the packed decimal? Why we use these to represent decimal numbers?　　　　　10%