1. Please describe what you know about “grid computing”. (15%) 

2. What does the complexity of an algorithm mean? And, please describe the indices used to evaluate the time complexity of an algorithm, with example. (15%) 

3. There are two types of file (sequential file and random access file), please answer the following problems.
   (a) What is the difference of sequential file and random access file? (5%) 
   (b) What is the advantage and disadvantage of these two types of files? (5%) 

4. Please write a pseudo program to rearrange the score of student according to their score using array. Each record contains student’s ID and score. (15%) 

5. What is the difference of compiler and interpreter? (15%) 

6. What is the difference of call-by-value or call-by-address in passing parameters between functions? (15%) 

7. Please sort the following list in increasing order by the method of insertion sort  
   10, 21, 5, 31, 42, 24, 90, 50, 15, 2  
   Write a pseudo code and list all sorting steps with temporary results. (15%)