1. What is the purpose of communication software? (5%)

2. What information do you want the computer to know for the statement
   "int I[10][5]={50};" in C computer programming language? (10%)

3. What are the basic control structures used in designing solutions to programming
   problems? (15%)

4. How is structured design different from object-oriented design? (10%)

5. What is the difference between system requirements and system specifications?
   (10%)

6. What is the difference between a homogeneous array and a heterogeneous array?
   (8%)   How do you implement a heterogeneous array by using C computer
   programming language? (7%)

7. Implement a binary full adder by using multiplexer. (10%)

8. Using C or C++ computer programming language to design a program to invert
   the order of an input string. (15%)

9. How is a single user/single tasking operating system different from a single
   user/multitasking operating system? (5%) What is preemptive multitasking? (5%)