

1. Explain the following terminologies (25%)
  - (a) Paging in virtual memory of Operation System
  - (b) ADSL
  - (c) Virtual Reality (VR) in Computer Graphics
  - (d) Recursive Function or Subroutine
  - (e) PDA
  
2. Explain the difference between (30%)
  - (a) Object Oriented Programming and Procedure Oriented Programming
  - (b) CISC Processor and RISC Processor
  - (c) Private Variable and Public Variable
  - (d) Binary Data and ASCII Data
  - (e) Word Processor and Text Editor
  - (f) Function and Subroutine in Programming
  
3. Write a subroutine with your favorite computer language (or use pseudo language) that randomly generates two **distinct** integers between 5 and 12 and store these two numbers into the argument(s) passed to the subroutine. (25%)
  
4. Covert the decimal number 218 to a hexadecimal number and its two's complement in a 8-bit word. (10%)
  
5. What is Parallel and Distributed Computing? (10%)