

ENS1161 Computer Fundamentals

Module 5 - Revision Questions

- 1. Briefly describe the advantages of using assembly language.
- 2. What are the two main functions of an assembler?
- 3. What is a high-level language and what are the advantages of using one for programming?
- 4. Briefly describe the functions of a compiler.
- 5. Show with the aid of diagrams how conditional branches and unconditional jump statements are used to implement the following high-level programming constructs:
 - a. IF .. THEN .. ELSE conditional statement
 - b. WHILE loop
 - c. DO .. WHILE loop
- 6. Briefly explain (with the aid of diagrams) how data is stored and retrieved from a *stack*, including the role of the SP register.
- 7. Explain the role of CALL and RETURN instruction when implementing subroutines and the role of the stack in the execution of these instructions.
- 8. List the advantages of using subroutines when writing programs.
- 9. Describe the function of a linker.