ENS1161 Computer Fundamentals

Module 9 – Revision Questions

1. List the main functions of an operating system and the explain which of the various components of an OS (as given in the lecture slides) carry out these functions.

2. Explain in your own words the difference between a program, a process and a thread.

3. Describe the main functions carried out by the scheduler in an operating system, hence explain the necessity to have a scheduler.

4. Describe the main functions of the memory management component of an OS.

5. Explain the purpose of virtual memory and how it works. Use diagrams where necessary.

6. Describe in detail (using diagrams where appropriate) how logical files are mapped to the physical space(s) they occupy on secondary storage.

7. Describe the 3 types of UI covered in this module and explain their similarities and differences.

8. List the various types of operating systems covered in this module and write a brief explanation (in your own words) how they are different.
   Note: A single OS may fall under multiple types/categories.