

Exam-style Questions

- 1 a In a multiprogramming environment, the concept of a process has been found to be very useful in controlling the execution of programs.
 - i Explain the concept of a process. [2]
 - ii In one model for the execution of a program, there are five defined process states. Identify **three** of them and explain the meaning of each. [6]
- b The transition of processes between states is controlled by a scheduler.
 - i Identify **two** scheduling algorithms and for each classify its type. [4]
 - ii A scheduling algorithm might be chosen to use prioritisation. Identify **two** criteria that could be used to assign a priority to a process. [2]
- 2 a Three memory management techniques are partitioning, scheduling and paging.
 - i Give definitions of them. [3]
 - ii Identify **two** ways in which they might be combined. [2]
- b Some systems use virtual memory.
 - i Identify which of the techniques in **part a** is used to create virtual memory. [1]
 - ii Explain **two** advantages of using virtual memory. [4]