



Past Papers Questions:

Section 3.1: The Functions of Operating Systems

May/June 2003

- 9 Describe what happens when a processor which is currently working on a job receives an interrupt from an external source. [6]

October / November 2003

- 2 Explain how memory can be managed to allow more than one large job to appear to be stored simultaneously in the memory. [5]
- 9 (a) Describe the process of spooling when sending jobs for printing. [3]
(b) Explain the importance of job type when a number of jobs are being processed using a multiprogramming operating system. [3]

May/June 2004

- 5 (a) Describe the objectives of scheduling in a multi-user operating system. [3]
(b) Describe two common scheduling policies. [4]
(c) State five methods by which the priority of a job may be determined. [5]

October/November 2004

- 3 Describe how memory is managed in a typical modern computer system. Your answer should include an explanation of [3]
(i) fragmentation of memory, [3]
(ii) paging, [3]
(iii) segmentation, [3]
(iv) virtual memory. [3]

May/June 2005

- 5 An organisation manages an intranet. [6]
(c) A network operating system (NOS) is used to control the network. Describe
(i) transparency,
(ii) directory services,
(iii) security
as components of a NOS.

October/November 2005

- 5 (a) State the purpose of an interrupt in a computer system. [1]
(b) Describe what is meant by a [4]
(i) timer interrupt,
(ii) hardware interrupt.

May/June 2006

- 9 (a) Explain the meaning of the terms; [2]
(i) virtual memory, [2]
(ii) paging memory, [2]
(iii) segmentation of memory. [2]
- (b) (i) State what is meant by the term spooling. [2]
(ii) Describe the process of sending jobs for printing using a spooler. [3]

October/November 2006

- 9 (a) Explain why the operating system, of a multi-access computer system, needs to schedule the processing of jobs. [2]
(b) Describe how the operating system manages the throughput of jobs. Your answer should contain references to scheduling, job queues and priorities. [5]

May/June 2007

- 1 (a) Describe the following features of a network operating system.
(i) Transparency
(ii) Directory services
(iii) Security [6]
(b) Describe two of the main components of a typical desktop PC operating system. [4]

October/November 2007

May/June 2008

- 8 One of the main features of an operating system is the ability to schedule job throughput.
(a) Explain the purpose of scheduling job throughput. [2]
(b) Describe three scheduling policies which lead to different scheduling algorithms. [6]