



MC-3718

First Year B. C. A. (Sem. II) Examination

September / October - 2013

Paper - 203 : Introduction to Operating Systems

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दृशविवेक निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="checkbox"/> FIRST YEAR B. C. A. (SEM. 2)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> 203 : INTRODUCTION TO OPERATING SYSTEMS	<input type="text"/>
Subject Code No. : <input type="text"/> 3 <input type="text"/> 7 <input type="text"/> 1 <input type="text"/> 8	Section No. (1, 2,.....) : <input type="text"/> NIL
	Student's Signature

- (2) All questions are compulsory.  
(3) Do not interchange sub questions.

- 1 Answer the following questions in brief : 14
- (a) Explain real time operating system.
  - (b) List the advantages of linked allocation over contiguous allocation.
  - (c) What is file ? List and explain the importance of file extension.
  - (d) Differentiate between multiprogramming and multitasking.
  - (e) Explain msConfig in brief.
  - (f) What is WMI control ?
  - (g) Explain the role of DMA.

- 2 (a) Discuss different services provided by operating system. 7  
(b) Write a note on Tree-structured directories. 7

OR

- 2 (a) Explain batch operating system with its drawback and its solution. 7  
(b) Discuss Acyclic-graph directories in detail. 7

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[Contd...

- 3 Answer any two : 14
- (a) Explain any one computer management tool.
  - (b) Write a note on Multi-user Operating System.
  - (c) List and explain different characteristics of I/O devices.

- 4 (a) Explain free space management. 7
- (b) Explain system properties using My computer. 7

OR

- (b) What do you understand by Software restriction Policies ? Discuss advantages of software restriction policies. 7
- 5 (a) Suppose that a disk drive has 300 cylinders, numbered 0 to 299. The disk drive is currently serving at cylinder 146, and the previous request was at cylinder 122. The queue of pending requests, in FIFO order, is : 7
- 89, 126, 43, 178, 99, 258, 39, 112
- Starting from the current head position, what is the total distance that the disk arm moves to satisfy all the pending requests for each of the following disk-scheduling algorithms ?
- (i) FCFS
  - (ii) SCAN
  - (iii) LOOK
- (b) List out various system tools. Explain any two of them. 7

OR

- (b) Explain characteristic of devices. 7