



RB-3718
First Year B. C. A. (Sem. II) Examination
March / April - 2017
203 : Introduction to Operating System

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

<p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : FIRST YEAR B. C. A. (SEM. 2)</p> <p>Name of the Subject : 203 : INTRODUCTION TO OPERATING SYSTEM</p> <p>Subject Code No. : 3 7 1 8 Section No. (1, 2,.....) : NIL</p>	<p>Seat No. : <div style="border: 1px solid black; width: 40px; height: 20px; margin: 2px;"></div><div style="border: 1px solid black; width: 40px; height: 20px; margin: 2px;"></div><div style="border: 1px solid black; width: 40px; height: 20px; margin: 2px;"></div><div style="border: 1px solid black; width: 40px; height: 20px; margin: 2px;"></div><div style="border: 1px solid black; width: 40px; height: 20px; margin: 2px;"></div><div style="border: 1px solid black; width: 40px; height: 20px; margin: 2px;"></div></p> <div style="border: 1px solid black; width: 100%; height: 80px; margin-top: 10px; border-radius: 10px; display: flex; align-items: center; justify-content: center;"><p>Student's Signature</p></div>
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- (2) All questions are compulsory.
(3) Do not interchange sub-questions.

1 Answer the following question. [14]

1. What is event viewer?
2. Define Operating System.
3. Explain about MsConfig File?
4. Define Absolute and Relative Path.
5. What is a file management System?
6. What do you mean by multi tasking? Give the name of operating system having this feature.
7. What is Bit Vector? How it is useful to manage free-space in disk?

2 (A) Explain elements of Operating System. [7]

(B) Explain various types of file protection mechanism used by operating system. [7]

OR

(A) Explain the Directory Structure in brief. [7]

(B) Explain Batch Operating System with its advantages and drawbacks. [7]

3 (A) Discuss linked allocation method with its advantages and drawbacks. [7]

(B) Explain Characteristics of device. [7]

OR

(B) Discuss any one administrative tool in detail. [7]

- 4 **Answer any Two.** [14]
- (A) Write a note on relative access method.
(B) What is MMC? How to create new Console by using MMC?
(C) Write a short note on Disk Defragmenter.
- 5 (A) Suppose that a disk drive has 300 cylinders, numbered 0 to 299. [8]
The disk drive is currently serving at cylinder 146 and the previous request was at cylinder 122. The queue of pending request in FIFO order is.
89, 126, 43, 178, 99, 259, 39, 112
Starting from 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?
1)FCFS 2)SCAN 3)LOOK
- (B) Write a short note on Real-Time operating System. [6]
- OR**
- (B) Explain different system properties using my computer. [6]
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