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)

(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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