M-3718

First Year B. C. A. (Sem. II) Examination
September/October – 2015
Paper-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 questions   **14**

   (1) What is primary goal of OS?

   (2) What are the limitations of serial processing OS?

   (3) What is file? List and explain the importance of the file extension.

   (4) List out the operations perform on a directory.

   (5) What is diagnostic startup and selective startup?

   (6) Define seek time and rotational delay.

   (7) What do you mean by block device?

2 (a) Write a note on batch operating system.   **7**

   (b) Discuss tree structure directories in detail.   **7**

OR

   (a) Write a note on real time operating system.   **7**

   (b) Explain operation perform on file.   **7**

3   (a)   Discuss the evolution of an operating system   8

       (b)   Explain Index access methods in detail.   7

<div align="center">OR</div>

       (b)   Explain single and multi user operating system in detail.   7

4   (a)   Write a short note on :   8

          (i)   Device Manager and

          (ii)   Disk Defragmenter.

       (b)   What is MMC? How to create a new console by using MMC?   7

<div align="center">OR</div>

       (b)   Describe storage utility of windows in detail.   7

5   (a)   suppose a disk drive has 300 cylinders numbered form 0 to 299. The drive has currently served the request at cylinder number 87 and the previous request was at cylinder 82. The queue for pending request in FIFO order is as follow : 91,123,35,186,71,14,19,58,290,189,56,7,299   8

         Show the disk scheduling for the following algorithm.

         (i)   FCFS   (ii)   LOOK

         (iii)   SCAN   (iv)   SSTF

       (b)   Explain characteristics of device.   4

<div align="center">OR</div>

       (b)   List out the various system tools and explain any two of them.   4