* D P P – 3 7 1 8 *

DPP-3718

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

March / April - 2016

Introduction to Operating System : Paper - 203

Time : 3 Hours] [Total Marks : 70

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ FIRST YEAR B. C. A. (SEM. 2)

Name of the Subject :

☛ INTRODUCTION TO OPERATING SYSTEM : PAPER - 203

☛ Subject Code No. : 3 7 1 8 ☛ Section No. (1, 2,.....) : Nil

Seat No. :

Student's Signature

(2) All questions are compulsory.

(3) Do not interchange sub questions.

1 Answer the following questions : 14

(1) Differentiate between sequential and relative access.

(2) List the types of events logged in event viewer.

(3) What is the difference between character and block I/O devices?

(4) Explain significance of distributed operating system.

(5) Explain types of pathname with an example.

(6) Differentiate between SCAN and C-SCAN disk scheduling policy.

(7) Explain MMC in brief.

2 (a) Discuss the need of an operating system. 7

(b) Explain acyclic graph directories in detail. 7

OR

(a) Write a note on multi-programming operating system. 7

(b) Describe different operations that can be performed on file. 7

3 (a) Write a note on Contiguous Allocation. 7

(b) Explain the various console modes of Microsoft windows management. 7

OR

(b) Discuss the concept of domain. 7

4 Answer any Two. 14

(1) Discuss file protection mechanism in details.

(2) Explain the system configuration utility in detail

(3) Explain serial processing. Discuss two main problems associated with serial processing.

5 (a) Suppose a disk drive has 200 cylinders number from 0 to 199. Drive is currently served the request at cylinder no 115. The queue for pending request in FIFO order is as follows: 8

36 38 77 88 99 124 12 186 166 81 17 91

Show the disk scheduling for the following algorithm :
(i) FCFS (ii) LOOK (iii) SCAN (iv) SSTF

(b) Discuss Bit-vector and linked list method useful to manage free space on disk. 6

OR

(b) Describe different characteristics of I/O devices. 6
