



**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)

नीचे दृशावेक 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="text" value="FIRST YEAR B. C. A. (SEM. 2)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="INTRODUCTION TO OPERATING SYSTEM : PAPER - 203"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="1"/> <input type="text" value="8"/>	<input type="text"/>
Section No. (1, 2,.....): <input type="text" value="Nil"/>	<input type="text"/>
	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