

Roll No.

Printed Pages : 2

8516

BT-5 / D-15

OPERATING SYSTEM

Paper-IT-357

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt any *five* questions, selecting at least *one* question from each unit.

Unit-I

1. What are different methodology to implement o/s service. Also define Real Time operating system. 20

2. What is producer consumer problem. Explain its solution by Algo. 20

Unit-II

3. What do you mean by pre-emptive and Non-pre-emptive scheduling. Explain FCFS in detail. 20

4. (a) Virtual memory

(b) Page fault

(c) Local vs Global allocation

Explain the above term of memory system.

20

Unit-III

5. (a) What are different directory operation of file system. 7

(b) How the free space is managed in file of operating system. 13

6. (i) Why the buffering is used in Communication of any devices. 5

(ii) What are different method to allocate devices by operating system. 15

8516

[Turn over

(2)

Unit-IV

7. (a) Explain client server model. 8
- (b) What do you mean by thread and also explain its role in distributed operating system. 12
8. Explain memory management and file system of Linux operating system with appropriate example. 20