

BT-7/D-24

47308

OPERATING SYSTEMS

Paper-ECO-11A

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. All questions carry equal marks.

UNIT-I

1. Discuss the concept of Operating system in detail. Discuss the functioning of the Operating system as Security and Protection and Efficient resource manager. 5,10
2. Discuss the Structure and Evolution of the Operating system. Discuss the future aspects of Operating system. 10,5

UNIT-II

3. Discuss the concept of PSW in an Operating system in detail. Discuss the concept of Inter process communication handled by the Operating system in detail. 7,8
4. Discuss the concept of Interrupts in an Operating system. Discuss Interrupt priority handling in detail. 5,10

UNIT-III

5. Discuss the concept of Concurrent processing in an operating system. Discuss the concept of process and process control block in detail. 5,10
6. Discuss the concept of Concurrent programs and processes. Discuss the process state creation and management in detail. 7,8

UNIT-IV

7. Discuss the various scheduling algorithms in an Operating system with suitable examples. 15
8. Discuss the problem of Deadlock with suitable examples. Discuss algorithms to Resolve and Avoid deadlock. 5,10

EXAMKIT