

Sr.No.1546

Exam Code: 110003
Subject Code : 2513

Bachelor of Vocation (Web Technology & Multimedia) - 3rd Sem.
(Batch 2020-23)
(2221)

Paper-302 : Operating System

Time allowed: 3 hrs.

Max. Marks: 50

Instructions to Candidates:

- 1) Attempt five questions in all. At least one question from each Sections- A, B, C and D. Fifth question may be attempted from any Section.
- 2) Use of Non-programmable and Non-storage type calculator is allowed.

Section A

1. Explain the concept of Parallel and Distributed system. Write the advantages of Parallel and Distributed system.
2. What is process? Explain states of process with diagram.

Section B

3. Define CPU Scheduling. Explain CPU scheduling criteria and at least two CPU scheduling algorithm with example of each.
4. What do you mean by critical section of a process? Explain the concept of Semaphore and classical problem of synchronization in detail.

Section C

5. What is disk scheduling? Explain SSTF, C-LOOK, and C-SCAN algorithm of disk scheduling in detail.
6. What do you mean by virtual memory? Explain the concept of demand paging with diagram in detail.

Section D

7. Explain various methods for handling deadlock. How deadlock is detected and recovered? Explain it in detail.
8. What do you mean by Open source operating system? Explain User and Kernel mode in detail.

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