

Exam. Code : 110003

Subject Code : 3672

Bachelor of Vocation Web Tech. & Multimedia

3<sup>rd</sup> Semester

OPERATING SYSTEM

Paper—302

Time Allowed—3 Hours]

[Maximum Marks—50

**Note** :— Attempt any **five** questions. Each question carries equal marks.

1. Explain and compare the FCFS and SSTF disk scheduling algorithms with example.
2. What is threads ? Write in detail about the threads libraries.
3. Explain the Resource-Allocation-Graph algorithm for deadlock avoidance with example.
4. What is Paging ? Discuss the Paging model of logical and physical memory.
5. Distinguish between counting and binary semaphores. Show when does the semaphore definition requires busy waiting. Suggest a solution to overcome this problem.
6. What is demand paging ? Discuss the hardware support required to support demand paging.
7. Mention the Real-Time systems and Distributed systems in detail.
8. What is difference between Kernel mode and user mode ? Explain advanced concepts of LINUX.

10×5=50

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