



M 8131

Reg. No. :

Name :

VI Semester B.Sc. Degree (CCSS-Reg./Supple./Improv.)

Examination, May 2015

CORE COURSE IN COMPUTER SCIENCE

6B16 CSC : Operating System

Time : 3 Hours

Max. Weightage : 21

SECTION – A

(Answer all questions. Weightage for a Bunch of 4 questions is 1.)

1. Mutual exclusion problem occurs between
 - a) Two disjoint processes that do not interact
 - b) Processes that share resources
 - c) Processes that do not use the same resource
 - d) None of the above
2. A page fault occurs
 - a) When the page is not in the memory
 - b) When the page is in the memory
 - c) When the process enters the blocked state
 - d) When the process is in the ready state
3. Which of the following is crucial time while accessing data on the disk ?
 - a) Seek time
 - b) Rotational time
 - c) Transmission time
 - d) Waiting time
4. Which technique was introduced because a single job could not keep both the CPU and the I/O devices busy ?
 - a) Time-sharing
 - b) Spooling
 - c) Preemptive scheduling
 - d) Multiprogramming

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SECTION – C

(Answer **any five** questions. Weightage **2** for **each**.)

- 17. What are different types of operating systems ? Explain in detail.
- 18. What are real time operating systems ? How they are implemented ?
- 19. Define process. What are various states of a process ?
- 20. Explain Banker's algorithm for solving deadlock problem.
- 21. Discuss the concept of demand paging.
- 22. What you mean by swapping ?
- 23. Discuss the Linux operating system.
- 24. Give a note on virtual memory. (5×2=10)

SECTION – D

(Answer **any one** question. Weightage **4** for **each**.)

- 25. Discuss paging in detail.
- 26. Discuss the different process scheduling algorithms. (1×4=4)

- b) When the page is in the memory
- c) When the process enters the blocked state
- d) When the process is in the ready state

3. Which of the following is crucial time while accessing data on the disk ?

- a) Seek time
- b) Rotational time
- c) Transmission time
- d) Waiting time

4. Which technique was introduced because a single job could not keep both the CPU and the I/O devices busy ?

- a) Time-sharing
- b) Spooling
- c) Preemptive scheduling
- d) Multiprogramming