

12. (a) Explain about the scheduling criteria and any three algorithms with an example. (16)

Or

- (b) How can deadlock be detected and recovered? Explain in detail. (16)

13. (a) (i) Describe contiguous memory allocation in detail. (8)
(ii) Explain how swapping can be used for memory management in detail. (8)

Or

- (b) Explain any five page replacement strategies. Compare the performance of these strategies. (16)

14. (a) (i) Explain file access, file attributes and file operations. (8)
(ii) Describe the techniques for free space file management. (8)

Or

- (b) Discuss with diagrams the following three disk scheduling: FCFS, SSTF, C-SCAN. (16)

15. (a) (i) Describe the components of a linux system in detail. (8)
(ii) Describe process scheduling in linux system in detail. (8)

Or

- (b) (i) Describe the architecture of windows 2000 operating system. (8)
(ii) Describe about the security measures in linux system. (8)