



COMPUTER SCIENCE

Advanced Operating System

Note : Answer any **two** parts from each question. All questions carry equal marks.

1. (a) What is Operating System? Explain multiprogramming, time sharing and real time operating system in brief.
- (b) Write the functions of memory management and process management.
- (c) Write short note on job control language.

(2)

Unit-II

2. (a) Explain the architecture of Multithreaded Operating System.
- (b) Describe preemptive and non-preemptive scheduling with their advantages and disadvantages.
- (c) Write the features of Hard and Soft real time operating system.

Unit-III

3. (a) Describe the architecture of pentium processor.
- (b) Explain the role of Translation Lookaside Buffer (TLB).
- (c) Write the difference between user process and kernel process.

Unit-IV

4. (a) Classify device and their drivers.
- (b) Explain dynamic loading and unloading of device driver.
- (c) Write short note on device switch table.

Unit-V

5. (a) Explain v-node architecture in brief.

(3)

- (b) Describe distributed file system.
 - (c) Write short notes on the following :
 - (i) Network File System
 - (ii) Remote Procedure Call (RPC)
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