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Total Pages: 02

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OPERATING SYSTEM-I BCA-352

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

- 1. With reference to the operating system, answer the following: 2×8=16
 - (i) Multiprocessing
- (ii) Distributed

(iii) FCFS

- (iv) Process
- (v) Semaphore
- (vi) Swapping
- (vii) Deadlock
- TOPPERWorld (viii) LRU

Unit I

- Define Operating System. Explain its characteristics and components.
- Explain the terms Batch, Timesharing, Parallel and Distributed with reference to Operating System.
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Unit II

4.	Define	process	and	thread.	Explain	Process	Control
	Block.						16

Explain FCFS, SJF, Priority, Multilevel Queue scheduling algorithms.

Unit III

- 6. Explain Prevention, Avoidance, Detection and Recovery with reference to dealock.

 16
- Explain Partition, Paging, Fragmentation and Segmentation with reference to memory management.

Unit IV

- 8. Explain FIFO, Optimal and LRU page replacement algorithms.
- Explain various file allocations methods.