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Roll No.

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B.C.A. (Part II) Examination, 2022

(New Course)

PAPER FIFTH

OPERATING SYSTEMS WITH LINUX

(BCA-205)

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt any two parts from each unit. All questions carry equal marks.

Unit - I

1. (a) What is batch processing and spooling? Explain.
- (b) Explain multiprocessor system time sharing system.

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- (c) Explain functions of goals of operating system.

Unit -II

2. (a) Explain process control block of state transition diagram in detail.
- (b) Explain types of schedulers. Context switching and dispatcher.
- (c) Explain CPU Scheduling algorithm with example and their evaluation.

Unit -III

3. (a) Explain contiguous memory allocation and fragmentation in detail.
- (b) Explain paging, segmentation and Demand paging in detail.
- (c) Explain FIFO, MRU and LRU in detail.

Unit - IV

4. (a) Explain kernel and its functions in detail.

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- (b) Explain features of Unix File System and i-node table in detail.
- (c) Explain 'Vi editor inserting line, deleting and replacing character. Explain grep, chmod, yacc.

Unit - V

- 5. (a) Explain standard error redirection and background processing.
- (b) Explain Special shell variables \$, # #? \$ * and decision making by while and until.
- (c) Explain string comparison, logical operation and command line arguments.