

Roll No. ....

**D-3851****B. C. A. (Part II) EXAMINATION, 2020**

(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) Explain batch processing and function of Operating System.
- (b) Explain time sharing and real time system.
- (c) Explain spooling and multiprocessor system.

**Unit—II**

2. (a) Explain process control block in detail.
- (b) Discuss context switching and dispatcher.
- (c) Explain multilevel feedback queues in detail.

**Unit—III**

3. (a) Explain fragmentation and partition allocation policies.
- (b) Discuss paging and segmentation.
- (c) Explain demand paging of swapping.

**Unit—IV**

4. (a) Explain hardware requirements of UNIX and Kernel and its functions.
- (b) Discuss feature of UNIX File system and commands like mkdir, chmod, grep, awk etc.
- (c) Explain shell and system calls various versions of Unix.

**Unit—V**

5. (a) Explain command line arguments of command substitution.
- (b) Explain while loops and string comparison with example.
- (c) Explain shell variables \$, #, # ?, \$ \* and standard error, redirection system.

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