Roll	No.	•••••

E - 3902

B. C. A. (Part II) EXAMINATION, 2021

(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

- (a) Explain the difference between multiprogramming and multiprocessor operating system.
 - (b) Write various functions and goals of operating system.
 - (c) Briefly describe the types of operating system.

Unit—II

- 2. (a) Explain the concept of process control block.
 - (b) Describe the types of CPU scheduling.

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(c) Write short notes on the following: (i) Context switch and dispatcher (ii) Process state Unit—III (a) Explain contiguous memory allocation in detail. Write short notes on the following: (b) (i) Fragmentation Compaction (ii) (iii) Paging (iv) Segmentation Describe about various page replacement policies. (c) Unit—IV Describe features and benefits of Unix operating (a) system. Describe the following: (b) Kernel and its function (i) (ii) System call and shell Write short notes on the following Unix commands: (c) (i) who (ii) pwd (iii) cd (iv) ls

3.

4.

(v) chmod

Unit—V

- 5. (a) Describe the following:
 - (i) wild card characters
 - (ii) shell variables
 - (b) Write short notes on the following:
 - (i) i/out redirection
 - (ii) pipes/tee in shell programming
 - (c) Write shell program to demonstrate if.....fi.