I/ 96 -	-22
	Annua

Roll No.

Annual Examination, 2022

B.C.A. Part II

B.C.A.-205

Paper V

(Operating Systems with Linux)

Time: 3 Hours [MAXIMUM MARKS: 80

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

Unit-I

- **1.** (a) What is operating system? Explain its feature.
 - (b) Differentiate between multiprogramming and multiprocessing operating system.
 - (c) Write notes on:
 - (i) Batch processing
 - (ii) Spooling.

Unit-II

- **2.** (a) What is process? Explain the process control block.
 - (b) What is queuing diagram? Explain with example.

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- (c) Write notes on:
 - (i) Context switching
 - (ii) Dispatcher.

Unit-III

- **3.** (a) Differentiate between contiguous and non-contiguous memory location.
 - (b) Explain the FIFO page replacement algorithms.
 - (c) Write notes on:
 - (i) Demand paging
 - (ii) Page segmentation.

Unit-IV

- **4.** (a) What is unix operating system? Explain its feature and benefits.
 - (b) What is kernel? Explain its function.
 - (c) Explain the following unix command with example:
 - (i) Chmod
 - (ii) Grep
 - (iii) Pwd
 - (iv) Awk.

Unit-V

- **5.** (a) What is system variable? Explain any four system variable with example.
 - (b) Write a shell script to calculate the factorial of any number.
 - (c) Write a shell script to find the greatest number among any three numbers.

