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Roll No.

Total Printed Pages - 3

F-3973

B. C. A. (Part - III) Examination, 2022

(Old Course)

PAPER FIFTH

COMPUTER OPERATING SYSTEM

(303)

Time : Three Hours]

[Maximum Marks:100

[Minimum Pass Marks:40

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

Unit - 1

1. (a) What is an operating system? Explain the multiprogramming operating system.

- (b) Discuss that operating system is a resource manager.

- (c) Write short notes on :

(i) Real Time System

(ii) Multiprocessor System

Unit - 2

2. (a) Discuss the process state and PCB.

- (b) Discuss the round robin and multi level queues algorithm.

- (c) Explain the master slave scheduling.

Unit - 3

3. (a) What is virtual memory? Explain the memory demand page.

- (b) Describe the page replacement algorithm.

- (c) Write short notes on :

(i) Disk scheduling algorithm

(ii) Fragmentation

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Unit - 4

4. (a) Explain the Physical File System.
- (b) Describe the Index allocation performance.
- (c) Explain the free space management

Unit - 5

5. (a) What is dead locks? Explain how to detect deadlocks?
- (b) Discuss about dead lock prevention.
- (c) Explain the combined approach to deadlock handling.