

## C 53034-A

B.Com.(CA) (Three Year) DEGREE EXAMINATION, OCTOBER/NOVEMBER 2017.

End Semester Examination

Fifth Semester

(Regular / Supplementary)

Paper IV – OPERATING SYSTEMS

*Time : 3 Hours*

*Max. Marks : 70*

### PART — A

Answer any FIVE of the following questions. **(5 × 4 = 20 Marks)**

1. Explain the function of operating system.
2. Explain process control block.
3. Explain about demand paging.
4. Explain the concepts of a file.
5. Explain deadlock characterization.
6. What is OS structure?
7. What are schedulers?
8. What is virtual memory?

### PART — B

Answer ALL the following questions. **(5 × 10 = 50 Marks)**

9. (a) Explain various types of operating systems.

Or

- (b) What are the computer system architecture and operating system objectives.

10. (a) Explain about critical section problem.

Or

- (b) Explain Shortest-Job-First scheduling algorithm with example.

Turn Over

11. (a) Explain LRU page replacement algorithm with example.

Or

(b) Explain segmentation with paging.

12. (a) Explain File Access methods.

Or

(b) Explain disk scheduling.

13. (a) Explain Deadlock prevention and Avoidance.

Or

(b) Explain Deadlock detection and recovery.

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