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Roll No.

32288

B. Sc. EXAMINATION, 2025

(Fourth Semester)

(Re-appear Only)

COMPUTER SCIENCE

Paper–II

Operating System

Time : 3 Hours]

[Maximum Marks : 40

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (i) Define System Call.
(ii) Explain different scheduling criteria.
(iii) Define Semaphores.
(iv) What do you mean by Disk Management ? 4×2=8

Unit I

2. What is Operating System ? Explain different types of Operating System. 8

Or

3. Write short notes on the following : 8
 - (i) System services
 - (ii) System programs.

Unit II

4. Define Process. Explain different state of process. 8

Or

5. What do you mean by Deadlock ? Explain different conditions of deadlock to occur. 8

Unit III

6. Explain the concept of Paging and Segmentation in detail. 8

Or

7. What is virtual memory ? Why operating system use the concept of virtual memory ? 8

Unit IV

8. Define Disk Scheduling. Explain various disk scheduling methods with example. 8

Or

9. Explain any *two* types of allocation method. 8

