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**VA—319—2024**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (Second Year) (Third Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2024**

**(New Pattern)**

**COMPUTER SCIENCE**

**Paper VI**

**(Operating System)**

**(Saturday, 21-12-2024)**

**Time : 2.00 p.m. to 4.00 p.m.**

*Time—Two Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt all questions.*

*(ii) Figures to the right indicate full marks.*

1. What is system call ? Explain types of system call in detail. 15

*Or*

(a) Explain protection and security in operating system. 7

(b) Explain computer system architecture. 8

2. Explain process concept, process scheduling and threads. 15

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*Or*

- (a) Explain operating system services. 7
- (b) Explain file system structure. 8
3. Write short notes on (any *two*) : 10
- (a) Memory management
- (b) Operating system generations
- (c) Virtual memory
- (d) File system.

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