

This question paper contains 2 printed pages]

PA—319—2024

FACULTY OF SCIENCE AND TECHNOLOGY

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

APRIL/MAY, 2024

(New Pattern)

COMPUTER SCIENCE

Paper—VI

(Operating System)

(Thursday, 09-05-2024)

Time : 2.00 p.m. to 4.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) *All questions are compulsory.*

(ii) *Assume suitable data.*

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

1. (a) What is operating system ? Explain operating system structure. 15

Or

(b) Explain process scheduling in detail. 7

(c) Explain IPC systems in detail. 8

2. (a) What are system calls ? Explain types of system calls. 15

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(2)

PA—319—2024

Or

- (b) Explain memory swapping in detail. 7
- (c) Explain structure of the page table. 8
3. Write short notes on any *two* : 10
- (a) Distributed system
- (b) Virtual machine
- (c) Operating system services
- (d) Allocation paging.