NA—319—2023

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2023

(New Pattern)

COMPUTER SCIENCE

Paper-VI

(Operating System)

(Tuesday, 26-12-2023)　　　　　　　　　　　　　**Time : 2.00 p.m. to 4.00 p.m.**

Time—2 Hours　　　　　　　　　　　　　　　　　　*Maximum Marks—40*

N.B. :— (1)　Attempt *all* questions.

　　　　　(2)　Draw suitable diagrams wherever necessary.

　　　　　(3)　Assume your own data if necessary.

1.　Define operating system. Enlist and explain operating system operations.　15

Or

(*a*)　Explain user operating system interface.　　　　　　　　　　　8

(*b*)　Explain the concept of process scheduling.　　　　　　　　　7

2.　What is memory management ? Explain contiguous allocation.　　15

Or

(*a*)　What is interprocess communication ?　　　　　　　　　　　8

(*b*)　Explain the concept of system program.　　　　　　　　　　7

P.T.O.

3. Write short notes on (any *two*) : 10

    (*a*) Operating system structure

    (*b*) System calls

    (*c*) Operations on processes

    (*d*) Memory swapping.