This question paper contains **2** printed pages]

VA—316—2024

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

(New Pattern)

COMPUTER SCIENCE

Paper I

(Programming Logic Concepts–I)

(Thursday, 19-12-2024)   **Time : 10.00 a.m. to 12.00 noon**

Time—Two Hours   *Maximum Marks*—40

N.B. :— (*i*)   Answer suitable data, if necessary.

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

1.   What is Computer ? Describe in detail computer architecture.   15

Or

(*a*)   What is algorithm ? Explain implementation of algorithm.   8

(*b*)   Describe in detail flowchart with an example.   7

2.   Define Array. Explain in detail memory representation of array.   15

Or

(*a*)   Write an algorithm for generating prime number.   8

(*b*)   Describe problem solving aspect in detail.   7

P.T.O.

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

    (*a*)   Top-down design

    (*b*)   Types of memory

    (*c*)   Applications of computer

    (*d*)   Array counting.