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

NA—316—2023

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2023

(New Pattern)

COMPUTER SCIENCE

Paper-I

(Programming Logic Concepts-I)

(Friday, 22-12-2023)   **Time : 10.00 a.m. to 12.00 noon**

Time—2 Hours   *Maximum Marks*—40

N.B. :— (1) Assume suitable data if necessary.

      (2) Figures to the right indicate full marks.

1. What is Computer ? Explain applications of Computer and I/O devices. 15

Or

(*a*) Explain concept of Analysis of algorithm with example.   8

(*b*) Write an algorithm to calculate factorial of a number.   7

2. What is flowchart ? Write algorithm to find the maximum from array and also draw flowchart for the same algorithm.   15

Or

(*a*) Explain concept of Top Down design.   8

(*b*) Write an algorithm for summation of numbers from 1 to 20.   7

P.T.O.

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

    (*a*) Classification of computer

    (*b*) Flowchart symbols

    (*c*) Types of Memory

    (*d*) Array.