

This question paper contains 3 printed pages]

ND—07—2023

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper-BCS-102

(Introduction to Programming Language Using C : Part-1)

(Friday, 1-12-2023)

Time : 10.00 a.m. to 1.00 p.m.

Time—Three Hours

Maximum Marks—75

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

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data, if required.

(iv) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.

1. Attempt any *five* of the following (3 marks each) :

15

(a) Explain application area of C programming language.

(b) What is keyword ? Explain its purpose.

(c) Explain if statement with example.

P.T.O.

- (d) Write a program to print 10 to 1 numbers.
- (e) Write a program to find given number is Even or Odd.
- (f) Explain goto statement.
- (g) Explain High Level Language.
2. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain difference between compiler and interpreter.
- (b) Explain flowchart symbols.
- (c) Explain data types in C language.
- (d) Write a program to print day name on number input using else if.
- (e) Explain different types of operator in C language.
3. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain difference between for loop and while loop.
- (b) Explain nested if-else statement.
- (c) Explain switch case with example.
- (d) Write a program to reverse any integer number.
- (e) Write a program to illustrate unformatted I/O statements.
4. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain do while loop with example.
- (b) Explain one-dimensional array.

- (c) Explain declaration and initialization syntax for single and two dimensional array.
- (d) Write a program to add two integer arrays.
- (e) Write a program to demonstrate two-dimensional array.
5. Write short notes on any *three* of the following (5 marks each) : 15
- (a) Break statement
- (b) Continue statement
- (c) if-else statement
- (d) Any *two* formatted I/O statement
- (e) Rules of constructing variable name in C.