

This question paper contains **3** printed pages]

**GF—09—2023**

**FACULTY OF SCIENCE AND TECHNOLOGY**

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

**APRIL/MAY, 2023**

**(CBCS/Revised Course)**

**COMPUTER SCIENCE**

**(Introduction to Programming Language Using C : Part I)**

**(Friday, 21-4-2023)**

**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) What is the difference between high level language and assembly language ?

(b) Explain what is compiler.

(c) Explain primary data types in C.

(d) What are reserved keywords ? Write any *five* keywords.

P.T.O.

- (e) Draw a flowchart for addition of 2 integers.
- (f) Explain nested if else syntax.
- (g) What are the applications of C Language ?
2. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain operators and types of operators in C.
- (b) What is formatted I/O statement ?
- (c) Write a program to find first 10 prime numbers.
- (d) Write a program to print first 10 numbers of Fibonacci series.
- (e) Explain the flow of nested for loop using any example.
3. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain the switch case/statement in C.
- (b) Write a program to find greatest of 3 numbers, take 3 numbers from user.
- (c) Explain the syntax of if-else ladder.
- (d) Write a program to check whether given integer number is palindrome or not.
- (e) Explain do-while loop syntax.
4. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain break statement with an example.
- (b) Explain goto statement with an example.

- (c) Explain continue statement with example.
  - (d) Explain what is array.
  - (e) What are header files ? Give at least **3** examples of header files.
5. Write short notes on any *three* of the following (**5** marks each) : 15
- (a) Bitwise operator
  - (b) Two-dimensional array
  - (c) Stdio.h header file and conio.h header file
  - (d) While loop
  - (e) History of C language.