# BA / BSc / BCOM DEGREE END SEMESTER EXAMINATION - NOVEMBER 2024
## UGP (HONS.)  SEMESTER - 1: DISCIPLINE SPECIFIC COURSE (CAP/BCA)
### COURSE: 24UCAPDSC101/24UBCADSC101: PROGRAMMING IN C

*(For Regular 2024 Admission)*

Time: 1.50 Hours                                                                          Max. Marks: 50

## PART A:

### *Answer any 5 questions.*

1. What is an array? How a single dimensional array is initialized?
2. Illustrate the purpose of return statement using an example?
3. What is storage class? List the different storage class?
4. Define algorithm? Write an algorithm to find the largest of three numbers.
5. Differentiate between formal parameter and actual parameters?
6. What is a preprocessor directive? What is its significance?
7. Explain any two file-handling functions in C?                                    (2 x 5 = 10)


## PART B:

### *Answer any 4 questions*

8. Explain different types of loops in C with syntax and example code?
9. Elaborate formatted input and output statements with examples?
10. Explain the general structure of C program with an example?
11. What is function? Write a function to generate the Fibonacci series.
12. Write a C program to read, write and compute average marks and display the students scoring above and below the average marks for a class of N students.
13. Differentiate call-by-value and call by reference method in C?

                                                                                         (5 x 4 = 20)

## PART C:

### *Answer 2 questions*

14. Define structure with syntax. Explain structure within the structure with an example ?
15. Explain the concept of file handling in C?
16. Explain about different data types in C?

                                                                                         (10 x 2 = 20)