

**FYUGP/1st Sem/24(NEP)New
2024**

Four Year Under Graduate Programme (FYUGP)

**1st Semester Examination (Under NEP)
(New Session 2024-25)**

BCA (Major)

Paper Code : BCAMJ DC-101

(Introduction to Programming using C)

Full Marks : 30

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

1. Answer any *five* questions. 2×5=10

- (a) What is command line argument?
- (b) What is the use of the size of operator in C?
- (c) Find the output of the following program. Also, explain it.

```
#include<stdio.h>
```

P.T.O.

(2)

```
int main()
{
    char ch = 'A';
    printf("%c", ch + 1);
    return 0;
}
```

- (d) What is a function pointer?
- (e) What is the purpose of the return statement in a function?
- (f) What is pointer arithmetic?
- (g) Differentiate between global and local variables.

Group - B

Answer any *four* questions. $5 \times 4 = 20$

- 2. (a) Explain the use of break and continue statements with examples. $5 \times 4 = 20$
- (b) Differentiate between structure and union. $3 + 2$
- 3. Discuss the use of recursion. Write a C program to calculate the factorial of a number using recursion. $2 + 3$
- 4. (a) Write an algorithm to subtract two matrices.
- (b) What is macro substitution? Write a C program using macro to find the square of a number. $2 + (1 + 2)$