

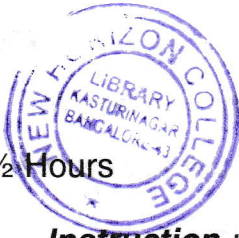


**I Semester B.C.A. Degree Examination, December 2024/January 2025**

**(NEP Scheme) (Repeaters)**

**COMPUTER APPLICATION**

**CAC02 : Programming in C**



Time : 2½ Hours

Max. Marks : 60

**Instruction : Answer *all* the Sections.**

**SECTION – A**

I. Answer **any 6** questions, **each** question carries **2** marks. **(6×2=12)**

- 1) Mention any two features of C.
- 2) What are constants in C ? Give example.
- 3) Define token with an example.
- 4) What are increment and decrement operators ?
- 5) What are escape sequence characters ?
- 6) What is a two-dimensional array ?
- 7) What is string ? Mention any two string handling functions.
- 8) What is pointer ? How it is declared ?
- 9) What is a function prototype ?

**SECTION – B**

II. Answer **any 4** questions, **each** question carries **6** marks. **(4×6=24)**

- 10) Explain the basic structure of C program with an example.
- 11) Explain the fundamental data types supported by C.
- 12) With an example explain getchar( ), putchar( ), gets( ) and puts( ) functions.
- 13) What is an array ? Explain memory representation of two-dimensional array with example.
- 14) What are advantages and disadvantages of using pointers ?
- 15) Explain components of user defined functions.



## SECTION – C

III. Answer **any 3** questions, **each** question carries **8** marks. (3×8=24)

- 16) a) Explain the formatted input and output functions with an example. 4  
b) What is the difference between break and continue statements ? 4
  - 17) Discuss any 4 types of operators supported by C language. 8
  - 18) Explain various looping statements in C with example. 8
  - 19) Write a C program to find GCD of 2 numbers. 8
  - 20) a) Write a note on call by value with an example. 4  
b) Illustrate the declaration and initialization of pointers with an example. 4
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