239939 **SDCCA-102**

I Semester B.C.A./B.C.A.(DS) Degree Examination,
December/January - 2025/26
(SEP Scheme Freshers+Repeaters)
COMPUTER APPLICATIONS
Programming in C
Paper - CAIT2

NEW HORIZON COLLEGE
LIBRARY
KASTURINAGAR
BANGALORE-43

Time : 3 Hours **Maximum Marks : 80**

Instructions:

Answer all the Sections.

SECTION - A

I. Answer any Ten questions. Each questions carries 2 marks. (10×2=20)

1. What is keyword?
2. Define data types.
3. What is a constant?
4. Write the syntax of simple if statement.
5. Differentiate between break and continue statement.
6. Mention two types of functions.
7. What is an array?
8. What are nested structures?
9. Define enum.
10. What is dynamic memory allocation?
11. Define preprocessor directives.
12. What are macros?

[P.T.O.

SECTION - B

II. Answer any Six questions. Each question carries 5 marks. **(6×5=30)**

13. Discuss type conversions in C.

14. Write a program to read radius of a circle and to find area and circumference.

15. Explain for loop statement with syntax and example.

16. Briefly discuss recursive function with an example.

17. Write a note on operations on strings.

18. Explain the concept one dimensional array in C.

19. Explain call by value with an example.

20. What are command line arguments? Explain with an example.

SECTION - C

III. Answer any Three questions. Each question carries 10 marks. **(3×10=30)**

21. a) What is an operator? Explain any two types of operators in C with an example. **(5)**
    b) Explain any five library functions with an example. **(5)**

22. a) What is nested if statement? Explain with syntax and example. **(5)**
    b) Write a short note on user defined functions. **(5)**

23. a) Write a C program to perform addition of two matrices. **(5)**
    b) Explain structures in C with syntax and example. **(5)**

24. a) Explain the concept of pointers. **(5)**
    b) What is a file? Write a note on file modes. **(5)**
