

18. (a) Explain the following
(i) Arguments passing in function
(ii) Recursion function

Or

- (b) Explain the following
(i) Arrays and Strings
(ii) String Manipulation
19. (a) Discuss briefly the pointers to function with suitable code.

Or

- (b) Explain how to declare a structure with pointers and give an example to access the elements of the structure.
20. (a) Explain the file handling statements with example code.

Or

- (b) Explain the following
(i) Register variable
(ii) Preprocessor

S.No. 4194

NSRGA 1

(For candidates admitted from 2003–2004 onwards)

B.C.A. DEGREE EXAMINATION, NOVEMBER 2023.

Part III — Computer Applications — Major

PROGRAMMING IN C

Time : Three hours

Maximum : 100 marks

SECTION A — (10 × 2 = 20)

Answer ALL questions

1. What is mixed mode arithmetic expression?
2. What do you mean by type casting?
3. What is a multi-dimensional array? Give example
4. What is meant by nested loop?
5. What are storage classes in C language?
6. What is an array? How array can be declared?
7. How does a structure differ from an array?
8. Write any two uses of a pointer

9. What are the various modes of file can be opened?
10. What is the use of #error directives?

SECTION B — (5 × 6 = 30)

Answer ALL questions, Choosing either (a) or (b)

11. (a) Describe the structure of C with example program.

Or

- (b) Describe the basic types of constants and variables.

12. (a) What is the purpose of the scanf() function? Compare it with getchar() function.

Or

- (b) What is difference between break and continue statement? Explain.

13. (a) Describe the function declaration and definition with example code.

Or

- (b) How to declare and initialize the arrays in C language?

14. (a) Explain how to declare and use the pointer variables? Give example.

Or

- (b) Describe briefly about the array of pointers with example code.

15. (a) What is meant by Macro substitution? Explain with example.

Or

- (b) Explain bitwise operators with example.

SECTION C — (5 × 10 = 50)

Answer ALL the questions

16. (a) List out and explain the various operators in C language.

Or

- (b) List out the various basic data types in C language. Explain with example.

17. (a) Explain the conditional control flow statements with suitable example.

Or

- (b) Discuss the looping statements with suitable example.