

438**April 2023**

Time - Three hours
(Maximum Marks: 100)

- [N.B.]**
1. Answer all questions under Part-A. Each question carries 3 marks.
 2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

1. What are the features of C language?
2. What is meant by formatted input statement?
3. How to declare and initialize an one dimensional array?
4. Write about strlen() function in C with example.
5. Define structure with syntax.
6. Write about realloc() and free() functions.
7. What is meant by primitive data structure?
8. Define queues.
9. Define circular linked list.
10. What is meant by sequential list?

[Turn over.....

PART – B

11. (a) Explain character constants and string constants.

(Or)

(b) What are the unformatted i/o functions in C ? Explain with an example.

12. (a) Explain One dimensional and Two dimensional array processing with an example.

(Or)

(b) Discuss about various Math functions with example.

13. (a) Define union declaration and initialization with an example.

(Or)

(b) Explain the different functions used in dynamic memory allocation with example.

14. (a) How to represent an array in queue? Explain with an example.

(Or)

(b) (i) Discuss elementary data structure. (7)

(ii) Discuss the operations on data structure. (7)

15. (a) Explain about sorting technique with examples.

(Or)

(b) Write a C program for searching a number using binary search.
