997

October 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. Define constants.

2. What is meant by mixed mode expression?

3. What are the decision making statements available in C?

4. Define an array.

5. What are differences between structure and Union?

6. Define dynamic memory allocation.

7. Define stack and queue.

8. Give the implementation of push operation.

9. Define singly linked list.

10. What is meant by linear search?

[Turn over.....

PART - B

11. (a) Explain the structure of C program.

(Or)

(b) (i) What are the fundamental data types available in C? (4)
(ii) Write a C program to swap two variables. (10)

12. (a) Explain the various control statements available in C programming.

(Or)

(b) Explain One dimensional and Two dimensional array processing with example.

13. (a) Write a program to calculate the subject wise and student wise total and store them as a part of the structure.

(Or)

(b) Explain declaration and initialization of pointer with examples.

14. (a) Discuss about Primitive data structure and non primitive data structure.

(Or)

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

15. (a) Explain Bubble sort with an example.

(Or)

(b) Discuss about traversal of circular linked list.