



**CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY**  
(Under Government of Kerala)  
**CEP EXAMINATION-JUNE 2021**  
**Subject: Introduction to Programming**  
**DCA**

Register No.

Time: 3 Hours

Maximum Marks:100

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**I. Fill in the blanks. Answer ALL questions.**

**(10 x 1 = 10)**

1. \_\_\_\_\_ is a method used by a computer for the solution of a problem.
2. ALU stands for \_\_\_\_\_
3. \_\_\_\_\_ were used in First generation computer.
4. A quantity which may vary during program execution is called \_\_\_\_\_
5. \_\_\_\_\_ is a data structure in which each node has at most two children.
6. \_\_\_\_\_ function move the pointer from one record to another.
7. \_\_\_\_\_ is a process by a function calls itself repeatedly.
8. \_\_\_\_\_ is a data structure whose element are all of the same datatype.
9. \_\_\_\_\_ is a variable that represents location of a data item such as a variable or an array element.
10. \_\_\_\_\_ is defined as a data structure that allows adding and removing elements in a particular order.

**II. Explain briefly. Answer any TEN questions.**

**(10 x 4 = 40)**

1. What are the functional units of a computer?
2. Distinguish Getchar() and Putchar()
3. What you meant by a Pointer?
4. Define Function. Briefly explain about passing argument to a function.
5. Distinguish break and continue statement.
6. What are the different characteristics of a computer?
7. Write a C program to check whether a given number is Palindrome or not.
8. What are the different data types in C?
9. Differentiate external variables and static variables.
10. Distinguish explicit and implicit type conversion.

11. Define an Array. Write a C program to add two matrices using Array.
12. What you meant by enumerated data type?
13. Briefly explain about Tree Traversal.

**III. Answer any FIVE questions. Explain in detail.**

**(5 x 10 = 50)**

1. Describe about Linked List.
2. Explain about File operations in C.
3. Explain about Control statements in C.
4. Describe about operators in C.
5. What are the different types of Programming Languages?
6. List out different string functions in detail. Illustrate with an example.
7. Explain about Binary Tree.

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