



**CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY**  
(Under Government of Kerala)  
**CEP EXAMINATION-JUNE 2022**  
**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. A \_\_\_\_\_ is a set of instructions given to a computer to perform a specific operation.
2. Every statement in a C program ends with \_\_\_\_\_
3. \_\_\_\_\_ is an example of a loop statement.
4. The data type \_\_\_\_\_ is used for a numeric variable declaration.
5. \_\_\_\_\_ is a pre-processor command that includes standard input output header file to a C program.
6. \_\_\_\_\_ command prints the output onto the screen.
7. \_\_\_\_\_ are containers for storing data values.
8. A stack follows \_\_\_\_\_ in First Out principle.
9. The function which returns the length of a string is \_\_\_\_\_
10. \_\_\_\_\_ variable is designed for storing memory address.

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

**(10 x 4 = 40)**

1. What is the basic structure of a C program?
2. What is the purpose of array in a C program?
3. Write short note on break and continue statements in C.
4. What are the two ways to pass parameters to a function?
5. Briefly explain about pointers in C.
6. Give difference between gets and puts function.
7. Write short note on variable declaration with example.
8. What do you know about user defined functions?
9. What is linked list and its type?
10. What is enumerated datatype.

11. What are functional units of a computer?
12. What are the arithmetic operators in C?
13. What are the features of fourth generation computers?

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

**(5 x 10 = 50)**

1. Explain in detail about flowchart, symbols and types with an example.
2. Explain about while loop and for loop with example.
3. Explain about classification of computers.
4. Write a program to store details of a student (name, class, division, roll no, date of birth, name of parent, contact number) and display in a neat format.
5. Explain in detail about various operators in C.
6. Compare various generations of computer.
7. a) Briefly explain about scanf and printf functions  
b) Write string functions and their purpose.

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