CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY
(Under Government of Kerala)
CEP EXAMINATION- FEBRUARY 2023
Subject: Introduction to Programing
DCA

Register No.

Time: 3 Hours
Maximum Marks:100

I. Fill in the blanks. Answer ALL questions. (10 x 1 = 10)

1. _____ in C refer to fixed values that do not change during the execution of a program.

2. The statement clrscr(); is used for _____

3. Execution of a C program begins from _____

4. Consider the statements: x=5; y=x++; Then the value of y would be _____

5. A string can be copied using the function _____

6. The _____ statement can be used to branch unconditionally in a program.

7. Data type of numeric variable can be _____

8. When a function calls itself, it is called _____

9. Conditional operator in C is _____

10. float *p; declares p as a _____ to a _____ variable.

II. Explain briefly. Answer any TEN questions. (10 x 4 = 40)

1. Describe the use of functions scanf and printf.

2. Write short note on flowchart symbols.

3. What is the structure of a C program?

4. What are the types of linked lists?

5. What are the features of C programming language?

6. What is a pointer? How is a pointer initialized?

7. Write a program to convert days to months and days.

8. Briefly explain the difference between 'call by value' and 'call by reference'.

9. Distinguish the following
   a) gets and getchar
   b) puts and putchar

10. Write syntax of for loop. Also give an example.

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11. Briefly explain about single dimensional arrays.

12. Write general form of a switch statement along with an example.

13. What are the arithmetic operators in C?

III. Answer any FIVE questions. Explain in detail. (5 x 10 = 50)

1. What is a variable? Explain about various datatypes in C.

2. Write a program to output following multiplication table.

   3*1=3

   3*2=6

   ……..

   3*10=30

3. What is if statement? Explain with syntax and example.

4. What are arithmetic and relational operators?

5. Explain about while loop with an example.

6. Write a program to check whether a given character is vowel or consonant.

7. a. What are commonly used string functions?

   b. What are user defined functions? How do you declare a function in C?

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