Kamala College, Kolhapur

(Autonomous)

B.C.A. (Part-I) (Semester-I)

Examination March/April, 2024.

Introduction to Programming using C

Subject Code: CC 302

Day and Date: Saturday, 06/04/2024

Time: 08.00 a.m. to 11.00 a.m.

Total Marks: 80

Instructions:

1. Que.1 and Que. 8 are compulsory and attempt any three Questions from Que. No. 2 to Que. No. 7

2. Figures to the right indicate marks.

Q 1) Multiple Choice Questions. [12]

1) Which storage class is used for function arguments by default?
   a) extern b) auto c) static d) register

2) What is an example of iteration in C?
   a) for b) while c) do-while d) all of the mentioned

3) In C, how do you declare an array of pointers to integers?
   a) int* arr[] b) arr * [] c) int arr[]* d) int[] *arr

4) What is meant by 'a' in the following C operation?
   fp = fopen("Random.txt", "w+");

   a) read b) write c) write+read d) Append

5) The keyword 'break' can be simply used within _____
   a) do-while b) if-else c) for d) switch

6) What will the result of len variable after execution of the following statements?
   int len;
   char str1[] = {"39 march road 45"};
   len = strlen(str1);

   a)11 b)16 c)13 d)14

7) Array is a _____ data structure.

   a) Non-linear b) Primary c) Linear d) Data type

8) Which of the following function is used to write the integer in a file?

   a) getw()   b)putw()   c)int value   d)f_int()

9) Which symbol is used to declare a pointer?

   a) *   b) #   c)&   d)&&

10) Decision making in the C programming language is ___ .

   a) Repeating the same statement multiple times
   b) Executing a set of statements based on some condition
   c) Providing a name of the block of code
   d) All of these

11) Which function is used to read a line of text including spaces from the user in C?

   a) scanf()   b) getc()   c) fgets()   d) All of the above

12) You can access elements of an array by ___ .

   a) Values   b)indices   c) memory addresses   d) All of the above

Q2) Write a c program to enter matrix elements in two dimentional array   [16]

and display addition of two matrices.

Q3) a) Explain in brief Structure with Example ?   [8]

Difference Between Structure and Union.

   b) Write a C program to accept a number and check given   [8]

number is even or odd ?

Q4) a) Explain in brief pointer with Example .   [8]

   b) Explain Function in C programming with Example?   [8]

Write a function which calculate square of given number

(with aguments with return value) ?

Q5) a) Explain different datatypes in C language.   [8]

   b) Write difference between algorithm and flowchart.   [8]

Q6) What is array ? Explain in brief One dimensional Array   [16]

with Example ?

Q7) Explain Iteration Statements with example in C language. [16]

(For loop, do-while loop, while loop)

Q 8) Write short notes on. (Any Four out of Six) [20]

1) file opening modes
2) local variables in C
3) malloc( ) & calloc( )
4) Call by Value in C
5) Operators in C

6) Pre-processor directive

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