KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Technology) 2023 Admission
II Semester Final Examination – July 2024

Beas.1205   **Information Technology and Computer Programming (1+2)**   Marks: 50
Time: 2 hours

I   **Define the following**   (10x1=10)

1. "Pointers" in C.
2. Variable and Constant in C.

Match the following

3.

(1)	Processor	(a)	Input
(2)	Memory	(b)	Storage
(3)	Display	(c)	Output
(4)	Keyboard	(d)	CPU

4. **State True or False**

```
#include<stdio.h>
int main()
{
printf("\n Hello World")
return 0;
}
```

The above code gives syntax the error.

5. **Match the following**

(1)	Logical Operator	(a)	Loop
(2)	Relational Operator	(b)	<=
(3)	While	(c)	||
(4)	If	(d)	++
(5)	Arithmetic Operator	(e)	Conditional Statement

Fill in the blanks

6. Let A=1 and B= 0 then; A && B = ……………. and A || B = ……………
7. ………………………. is also called "The Brain" of the computer.
8. The 1st computer machine created by ……………. in …………….
9. Each string is terminated with a ………… character.
10. The ………….. function is used to concatenate one string to the end of another string.

II   **Write short notes on ANY FIVE of the following**   (5x2=10)

1. What is an Operating System?
2. What is the purpose of "BREAK" statement?
3. Explain the logical operators in C.
4. Write a short note on ASCII.
5. How structure is different from an array? Explain.
6. Explain function with example.
7. What is recursion and explain with example.

III   **Answer ANY FIVE of the following**   **(5x4=20)**

1. Write a C program to find whether string is palindrome or not.
2. Write a program in C for given two arrays 1,2,3,4,5 and 2,3,1,0,5. Find which number is not present in the second array.
3. Write C Program to find highest frequency element in array.
4. What is the output of the following code?

```
#include<stdio.h>
int main()
{
        FILE *fp;
        char ch, str[7];
        fp=fopen("try.c", "r"); /* file 'try.c' contains "This is Nagpur"
*/
        fseek(fp, 9L, SEEK_CUR);
        fgets(str, 5, fp);
        puts(str);
        return 0;
}
```

5. What do you mean by looping? Describe any two looping statements in C with example.
6. Discuss Algorithms and flowcharts.
7. Discuss functions of operating system.

IV   **Write an essay on ANY ONE of the following**   **(1x10=10)**

1. Explain different types of programming languages and differentiate Compiler and Interpreter.
2. Discuss all the storage Classes in C with appropriate examples. Which are the drawbacks of register storage class?

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