



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Tech.(Food Technology) 2021 Admission**  
**II Semester Final Examination – September 2022**

Beas.1205

**Information Technology and Computer Programming (1+2)**

**Marks: 50**  
**Time: 2 hours**

**I Fill in the blanks**

**(10x1=10)**

1. Local variable which exists and retains its value even after the control is transferred to the calling function is.....storage class.
  2. The network, which interconnects multiple station over a very small area is called .....
- State True or False**
3. A flow chart is an important tool for planning and designing a new system.
  4. Two case constants within the same switch statement can have the same value.
  5. #include <stdio.h> is needed to allocate memory from the heap.

**Answer the following**

6. Define conditional operator or ternary operator.
  7. Rules for declaring a structure
- Choose the correct answer**
8. Which unit is responsible for converting the data received from the user into computer understandable format?  
(a) Memory Unit  
(b) Arithmetic & Logic Unit  
(c) Input Unit  
(d) Output Unit
  9. An array elements are always stored in ..... memory locations.  
(a) Sequential  
(b) Random  
(c) Sequential and Random  
(d) None of the above
  10. Which of the following is true about a File in C?  
(a) It is a data type  
(b) A region of storage in Disk  
(c) A variable  
(d) Pointer

**II Write short notes on ANY FIVE of the following**

**(5x2=10)**

1. What are the different data types available in 'C'?
2. What is the difference between Logical AND and Bitwise AND?
3. How to Declare a members in Structure?
4. Differentiate actual parameters and formal parameters.
5. What is recursive function? Write syntax for recursive functions.
6. Explain the process of declaring and initializing pointers. Give an example.
7. What will be the value of sum after the following C program segment completes?  
int sum=1, index=9;  
do{  
    index = index-1;  
    sum = 2\*sum; }while  
(index > 9);

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

1. Define Operating System? Explain various function of operating system?
2. What is a computer network? Explain different types of computer networks.
3. What do you mean by looping? Describe any two looping statements in 'C' programming with examples.
4. Describe different Relational, Logical, Bitwise and Arithmetic operators available in C-Programming Language.
5. Explain the various string operations with examples. (note: Write any 4 string operations with syntax and example)
6. What is array of structure? Explain with example.
7. Explain meaning of following statement with reference to pointers:  
int \*a, b;  
b=20;  
\*a=b;  
A=&b;

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

1. Algorithms and flowcharts
2. One Dimensional Array in C with Example

\*\*\*\*\*