



**KERALA AGRICULTURAL UNIVERSITY**

**B.Tech.(Agri. Engg) 2016 Admission**

**VI Semester Final Examination-June 2019**

**Sacs. 3214**

**Computer Programming and Data Structures (1+2)**

**Marks: 50**

**Time: 2 hours**

**(10x1=10)**

**I Answer the following.**

- 1 Write down the escape sequence used for beep.
- 2 What is the range of unsigned int data type in C?
- 3 Name the header file for printf() function.
- 4 What does scope of a variable specify?
- 5 Define program.
- 6 Write down syntax for variable declaration in C.
- 7 getchar(), scanf() and gets() are used for string input. State whether True or False.
- 8 What is the nomenclature for conditional operator?
- 9 What is the function of continue statement.
- 10 What do you mean by identifier?

**II Write Short notes on any FIVE of the following**

**(5x2=10)**

- 1 Different debugging tools available in C language.
- 2 How can you declare a string in C?
- 3 Different types of assignment operators.
- 4 How will you write comments in C?
- 5 Differentiate between compiler and interpreter.
- 6 Significance of array index.
- 7 Write down the syntax and draw flowchart of Else-If-Ladder.

**III Answer any FIVE of the following.**

**(5x4=20)**

- 1 Different string handling functions in C.
- 2 Different decision making statements available in C language.
- 3 Write a program to find the factorial of a number.
- 4 Basic structure of a C program.
- 5 What is a structure? How are members of structure accessed?
- 6 Explain the concept of recursion.
- 7 How is malloc() function used for memory allocation? Give an example.

**IV Answer any ONE of the following**

**(1x10=10)**

- 1 Explain data types in C language and the qualifiers that can be used with data types.
- 2 Explain stacks and their working. What are the various operations on stacks? Write a program for push operation on stack.

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