



KERALA AGRICULTURAL UNIVERSITY
B. Tech. (Agrl. Engg.) 2020 Admission
VI Semester Final Examination – July 2023

Sacs.3214

Computer Programming and Data Structures (1+2) -

Marks: 50
Time: 2 hours

- I Fill in the blanks** **(10x1=10)**
1. Dynamic memory allocation is done by operator.
 2. The first expression in a for loop is
 3. In do-while structure, the condition is checked at.....
 4. All keywords in C are incase letters.
 5. C pre-processors are specified with symbol.
 6. Each string is terminated with a character.
- State True or False**
7. In C all functions except main() can be called recursively.
 8. Functions cannot return more than one value at a time.
 9. A text stream is an ordered sequence of characters composed into lines, each line consisting of zero or more characters plus a terminating new-line character.
 10. We should not read after a write to a file without an intervening call to fflush(), fseek() or rewind()
- II Write short on ANY FIVE of the following** **(5x2=10)**
1. Define Preprocessor.
 2. What are the conditions of binary search?
 3. What do you mean by the scope of a variable?
 4. Write logical operators in C with examples.
 5. Describe linked list.
 6. Define queue.
 7. Briefly explain how arrays are stored and represented in memory.
- III Answer ANY FIVE of the following** **(5x4=20)**
1. What is Dynamic Memory allocation? Mention the syntax.
 2. Write the difference between macros and functions.
 3. Differentiate a stack and a linked list.
 4. Write the steps for dequeuing in C.
 5. What are library functions? Write any 4.
 6. Explain self-referential structure with an example.
 7. Explain any 4 string handling functions with their syntax.
- IV Write an essay on ANY ONE of the following** **(1x10=10)**
1. Differentiate array of structures and array within a structure with examples for each.
 2. Explain life time of a variable in C language.
