

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Agrl.Engg) 2014 Admission

IInd Semester Final Examination-June/July-2015

Cal. No: Comp.1201	Marks: 50
Title: Computer programming and Data structures (1+1)	Time: 2 hours

Fill in the blanks:- (Q. Nos 1 to 5)

I.

(5x1=5)

- 1. Single quotes are used with constants of type.
- 2. A is used to change the type of a value.
- 3. function is used to free the allocated memory.
- 4. By default, anumber is treated as a double.
- 5. is a subpart of a program which can be reused as and when required.

Choose the correct answer in each of the following questions (5 x1 = 5)

- 6. What does the following declaration mean? Int (*ptr)(10);
 - a) ptr is an array of pointers to 10 integers.
 - b) ptr is a pointer to an array of 10 integers
 - c) ptr is an array of 10 integers.
 - d) ptr is pointer to an array.
- 7. In C, if you pass an array as an argument to a function, what actually get passed.
 - a) Value of elements in array.
 - b) First element of the array.
 - c) Base address of the array.
 - d) Address of the last element of array.
- 8. In the following code, P2 is integer pointer or Integer? Typedef int *ptr: ptr p1,p2:
 - b) Integer Pointer c) Error in declaration d) None of the above. a) Integer
- 9. If two strings are identical, then strcmp() function returns
 - a) -] b) 1 c) 0 d) Yes
- 10. Which header file should be included to use functions like malloc() and Calloc()?
 - a) memory.h b) stdlib.h c) string.h d) dos.h

II Write short notes on any FIVE questions

- 1. What is pseudo code? How it is used as a problem -sol ing tool
- 2. Distinguish between Compiler and Interpreter
- 3. What are the rules to form an identifier in C programming
- 4. Explain Increment and decrement operators in C
- 5. Explain the switch () statement with syntax and example
- 6. What is a structure .Explain the syntax of structure declaration with example
- 7. What is stack? Explain it with its applications

III Write short notes on any FIVE questions

- 1. Explain the two way selection (If. If. else .nested if else. else..if ladder) in C language with syntax
- 2. Write a program in C to find the factorial of a given number
- 3. What do you mean by call by value and call by reference give example
- 4. Explain recursive function with example
- 5. Explain Do while statement with example
- 6. What is an array? Explain the declaration and initialization of one and two dimensional array with example
- 7. Explain any five string manipulation library functions in C with examples

IV Write an essay on any ONE

1. Write a program in C to read register number and marks in 5 subjects and print the result based on the calculations given below

If percentage >= 80 result is Distinction

If percentage < 80 and >=60 result is First class

It percentage>=60 and <50 result is second class otherwise Failed

出出来的推动的名

Write a program in C to read n numbers into an array and sort the numbers in discending ords
using Bubble sort

 $(5 \times 2 = 10)$

 $(5 \times 4=20)$

 $(1 \times 10 = 10)$