

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Tech. (Agricultural Engineering)

Semester	: 1 (New)	Term	: I	Academic Year	: 2019-20
Course No.	: BS-COMP 111	Title	: Computer Programming and Data Structures		
Credits	: 2(1+1)				
Day & Date	: Saturday, 28.12.2019	Time	: 10.00 to 12.00	Total Marks	: 40

- Note :
1. Solve ANY EIGHT questions from SECTION "A".
 2. All questions from SECTION "B" are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 Describe the structure of a C language program.
- Q.2 Explain in detail the various primary data types used in C programming.
- Q.3 Write a C program to find rightmost digit of a given number.
- Q.4 Describe the input -output statements in C language with their syntax.
- Q.5 What is branching? Explain the structure of for loop with a suitable example.
- Q.6 Write a C program to print a given number in reverse order.
- Q.7 Describe the string functions strlen (), strcat (), strcpy (), strcmp ().
- Q.8 What is recursion? Explain with suitable example.
- Q.9 What is array? How to declare and initialize an array in C programming?
- Q.10 Explain stacks and push and pop operations.

SECTION "B"

- Q.11 Multiple choice questions.
- 1) The operator _____ is used to get value at address stored in a pointer variable.
a) * b) & c) || d) &&
 - 2) The keyword used to transfer control from a function back to the calling function is _____.
a) switch b) goto c) go back d) return
 - 3) _____ of memory is reserved for character data type.
a) 4 bytes b) 8 bytes c) 2 bytes d) 1 byte
 - 4) _____ is a logical AND operator.
a) & b) && c) || d) !
- Q.12 State True or False.
- 1) The ++ operator increments the operand by 1, whereas, the -- operator decrements it by 1.
 - 2) The keywords cannot be used as variable names.
 - 3) Functions can be called either by value or reference.
 - 4) A function can be defined inside another function.

