

SH-III/ELC/303-C-7/19

B.Sc. 3rd Semester (Honours) Examination, 2019-20**ELECTRONICS****Course ID : 31713****Course Code : SH/ELC/303-C-7****Course Title: C Programming and Data Structures****Time: 1 Hour 15 Minutes****Full Marks: 25**

*The figures in the right hand side margin indicate full marks.
Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any three* of the following questions: 1×3=3
- What do you mean by 'keywords' in C Programme?
 - What is 'Token' in C language?
 - How many bytes are required to store float type value?
 - What will be the output of the following C. Code

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Printf ("Logical AND is = %d", (5>3&&7>9)).
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 - If int a = 2, b = 3, x = 0, find the value of x = (+ + a, b + = a).
 - What is Unary Operator?
2. Answer *any three* of the following questions: 2×3=6
- How to initialize 1D and 2D arrays?
 - Explain with example + + i and i + +.
 - What are 'formal' and 'actual' parameters?
 - What is Pointer? How is it initialized?
 - What do you mean by Operator? Mention two logical operator.
 - What do you mean by formatted output in C language?
3. Answer *any two* of the following questions: 5×2=10
- What is the role of 'Switch' statement in C programming Language? Explain with example. 2+3=5
 - Write a C programme to add two matrices of dimension 3 × 3 and store the result in another matrix.
 - What is data type? Explain any four data types used in C language. 2+3=5
 - Write a C programme to read character from keyboard and display message whether character is alphabet, digit or special symbol.

4. Answer *any one* of the following questions:

6×1=6

- (a) Write a C program to accept a number from the user and check whether given number is present in the array or not using binary search algorithm.
 - (b) What do you mean by sorting? Write a C program to sort the n positive integers using Insertion sort algorithm.
 - (c) Write a C program to create a database of 50 students to store personal details such as Roll Nos, Names, and Marks. Print all the details of student whose name is entered by user.
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