U7442

Reg. No.: .....

Name:.....

University of Kerala

First Semester Degree Examination, November 2024

Four Year Under Graduate Programme

Discipline Specific Core Course

COMPUTER APPLICATION/COMPUTER SCIENCE

UK1DSCCAP101- Problem Solving using C/

UKIDSCCSC101 – Programming using C

Academic Level: 100-199

Time:1½Hours **Max.Marks:42**

Part A.

Answer All Questions, Objective Type. 1 Mark Each.

(Cognitive Level: Remember/Understand)

6 Marks. Time: 6 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
1.	State the use of a flowchart.	Remember	CO1
2.	Name the two types of type conversion.	Remember	CO1
3.	Identify the use of fgets().	Understand	CO4
4.	Discuss the use of logical operators.	Understand	CO2
5.	Compare exit() and return operation contexts.	Understand	CO2
6.	Indicate the scenario when a pointer becomes a dangling pointer.	Understand	CO3

Part B.

Answer All Questions , Short Answer. 2 Marks Each.

(Cognitive Level: Understand/Apply)

8 Marks. Time: 24 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
7.	Describe declaration and initialization of a string with an example.	Understand	CO2
8.	Discuss the advantages of using a recursive function.	Understand	CO3
9.	Write a C program to demonstrate pointers.	Apply	CO3
10.	Illustrate file opening in C language in write and append modes.	Apply	CO4

Part C.

Answer all 4 Questions, choosing among options within each question.

Long Answer. 7 marks each. (Cognitive Level: Apply/Analyse/Evaluate/Create)

28 Marks. Time: 60 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
11.	a. Write a C program to show the application of one or more relational and logical operators. OR b. Demonstrate the use of arithmetic operators in C using suitable examples and explain about operator precedence.	Apply	CO1
12.	a. Write a C program to find the sum of squares of digits in a number . OR b. Write a C program to merge two strings without using string functions.	Apply	CO2
13.	a. Write a C program to print the largest element in an array using functions. (Hint: array to be passed as parameter) OR b. Illustrate the concept of array of pointers using an example.	Apply	CO3
14.	a. Examine the concept of structure and array of structures in C language with suitable examples. OR b. Identify the difference in output, when a file writing is done in write and append modes.	Analyse	CO4