



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.	Name the built-in function to find the reverse of a string.	Remember	CO1
2.	State the primary datatypes in c	Remember	CO1
3.	Identify the use of static keyword.	Understand	CO2
4.	Identify whether the following statement is an application of recursion. fact(n)=n*fact(n-1);	Understand	CO3
5.	Define an array of structures.	Understand	CO4
6.	Give two examples for dynamic memory allocation methods.	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.	Explain the flowchart to find sum of N numbers	Understand	CO1
8.	Explain an array of pointers.	Understand	CO3
9.	Illustrate the situation where you will use void keyword in function definition	Apply	CO2
10.	Discuss the way of opening a text file in append mode in C.	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 an algorithm and draw the flowchart to find the sum of first N even numbers. OR b. Write an algorithm and draw the flowchart to check whether a triangle is a right angled triangle.	Apply	CO1
12.	a. Compare different types of operators in C with examples OR b. Distinguish between different storage classes in C.	Analyze	CO2
13.	a. Write a program using recursive function to generate Fibonacci series OR b. Write a program to check whether an input number is a palindrome or not.	Apply	CO3
14.	a. Examine the role of files as a data storage unit. Illustrate the statement through a suitable example. OR b. Differentiate with suitable examples array traversal with and without using pointers.	Analyze	CO4