



Reg. No.:

Name:

University of Kerala

First Semester FYUGP Degree Examination, December 2025

Discipline Specific Core Course

COMPUTER SCIENCE

UK1DSCCSC101 - Programming using C

Academic Level: 100-199

2024 Admission onwards

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

Qn No.	Question	CL	CO
1	What does the & operator do?	RE	3
2	State the syntax of free() function.	RE	4
3	Define an array.	UN	2
4	Give an example of a logical operator in C.	UN	4
5	Explain the advantages of using flowcharts.	UN	1
6	Give an example to declare a floating-point array and assign it to a pointer	UN	3

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Name any four header files in C.	UN	1
8	Explain the difference between Library functions and user defined functions.	UN	3
9	Describe structure within a structure with its syntax	AP	4
10	Implement a C program that applies if statements to find the largest of three numbers.	AP	2

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A)	AP	1, 1

Qn No.	Question	CL	CO
	<p>Demonstrate the rules for naming variables and identifiers, and illustrate your explanation with examples of valid and invalid names.</p> <p>OR</p> <p>B)</p> <p>Write a C program to calculate the area and perimeter of a circle and explain each line.</p>		
12	<p>A)</p> <p>Examine arithmetic, relational, and logical operators with suitable examples.</p> <p>OR</p> <p>B)</p> <p>Analyse the importance of formatted I/O functions in C and compare them with unformatted I/O functions.</p>	AN	2, 2
13	<p>A)</p> <p>Evaluate the parts of a function in C with an example, and justify the concepts of call by value and call by reference with examples.</p> <p>OR</p> <p>B)</p> <p>Discuss recursive functions in c with suitable examples</p>	EV	3, 3
14	<p>A)</p> <p>Justify the usage of file operations in C for real time applications</p> <p>OR</p> <p>B)</p> <p>Compares structures and union.Explain declaration, definition, initialisation and memory usage difference with example.</p>	CR	4, 4