



ACHARYA INSTITUTE OF TECHNOLOGY

Soladevanahalli, Bengaluru-560107

Department of AI & ML

UNIT TEST- I

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Subject with Code: BPOPS103 | Title: Principles of Programming Using C | Date: 11/11/2024

Semester/Section: I-Sec-O

AY:2024-2025(ODD)

Max Marks: 25

Time: 1.00Hrs

Note: Answer all questions.(each question carries 5 marks)

Qn	Questions	CO	BTL
1	What is a computer? Write 4 the characteristics of a computer.	CO1	L1
OR			
2	List and explain the different types of input devices.	CO1	L1
OR			
3	Write a structure of a C program with an example.	CO1	L1
OR			
4	What are variables? how they are declared and initialised with an example.	CO2	L1
OR			
5	What is variable? What are the rules to construct variables? Classify the following as valid/invalid Identifiers. i) num2 ii) \$num1 iii) +add iv) a_2 v) 199_space vi) _apple vii) #12	CO1	L1
OR			
6	Draw a flowchart and write a C program which takes as input p,t,r. Compute the simple interest and display the result.	CO2	L3
OR			
7	With a neat diagram explain the basic structure of a computer.	CO1	L2
OR			
8	What is a token? What are different types of tokens available in C language? Explain.	CO1	L1
OR			
9	Write a C program to demonstrate the use of printf and scanf statements to read and print values of variables of different data types.	CO2	L1
OR			
10	Develop an algorithm to find the area and perimeter of a circle. Also define an algorithm.	CO2	L2

Course Outcomes:	
C01	<i>Elucidate the basic architecture and functionalities of a computer and also recognize the hardware parts.</i>
C02	Apply programming constructs of C language to solve the real-world problem.
C03	Explore user-defined data structures like arrays in implementing solutions to problems like searching and sorting.
C04	Explore user-defined data structures like structures, unions and pointers in implementing solutions.
C05	<i>Design and Develop Solutions to problems using modular programming constructs using functions.</i>
Bloom's Taxonomy Level (BTL): L1 – Remembering (R), L2 – Understanding (U), L3 – Apply (A), L4 – Analysis (AN), L5 – Evaluate(E), L6 – Create (C)	

Faculty in Charge	Module Coordinator	Test Coordinator	Head of the Department