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EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY
An Autonomous Institution Affiliated to Visvesvaraya Technological University (VTU) Belagavi

USN | | | | | | | | | | |

EPPPS103/EPPPS203

First/Second Semester B.E. Degree Examination, May 2026
PRINCIPLES OF PROGRAMMING USING C

TIME:3 hrs. Max.Marks:100

Note: 1. Answer any FIVE full questions, choosing ONE question from each MODULE
2. M: Marks, L: Bloom's level, C: Course outcomes.

		Module-1	M	L	C
Q.1	a	Define Computer. With a neat diagram explain the basic structure of a computer	8	L2	CO1
	b	Explain the structure of C program with an example.	6	L2	CO1
	c	Explain the basic data types used in C language.	6	L2	CO1
		OR			
Q.2	a	Draw a flowchart to find the largest of three numbers.	8	L2	CO1
	b	Write a C program which takes as input p,t,r. Compute the simple interest and display the result.	6	L2	CO1
	c	Explain formatted input and output function with an example.	6	L2	CO1
		Module–2			
Q.3	a	Develop a C program that reads numbers from the user continuously and stops execution when a negative number is entered using the break statement.	8	L3	CO2
	b	Define do-while loop with syntax and flow chart. Develop a C program to print numbers from 1 to 10 using do-while loop.	6	L3	CO2
	c	Explain if, if-else and nested if-else with syntax and example.	6	L2	CO2
		OR			
Q.4	a	Develop a C Program to accept any single digit number(0 to 9) and print it in words using switch statement.	8	L3	CO2
	b	Explain for loop in C with syntax and develop a program that utilize for loop to print the sum of first N natural numbers.	6	L3	CO2
	c	Explain unconditional branch statements with syntax and illustrate its working with an example	6	L2	CO2
		Module–3			
Q.5	a	Illustrate the categories of functions . Develop a C program to find the sum of two numbers without parameters and without return value.	10	L3	CO3
	b	Develop a C code to implement bubble sort using function.	10	L3	CO3
		OR			
Q.6	a	Define an array, develop a C program to find smallest and largest element in an array on n elements.	10	L3	CO3
	b	Make use of 2-D array to develop matrix multiplication program in C language.	10	L3	CO3

Module–4					
Q.7	**a**	Explain any five string handling functions with syntax and example.	**10**	**L3**	**CO4**
	b	Develop a C program using pointers to compute the sum, mean and standard deviation of all elements stored in an array of N real numbers.	**10**	**L2**	**CO4**
OR					
Q.8	**a**	Develop a C program to swap two numbers using call by value and call by reference, and show the difference in results.	**10**	**L3**	**CO4**
	b	Explain the following with syntax .malloc(), calloc(), realloc() & free().	**10**	**L2**	**CO4**
Module–5					
Q.9	**a**	Develop a C program that utilizes structures to read and display emp_id, emp_name, and emp_salary.	**10**	**L3**	**CO5**
	b	Define Union. Compare Union and Structure with Syntax.	**10**	**L2**	**CO5**
OR					
Q.10	**a**	Implement structures to read, write and compute average marks of the students, list the students scoring above the average marks for a class of N students.	**10**	**L3**	**CO5**
	b	Develop a C program to read and display the content of file.	**10**	**L3**	**CO5**

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