

CBCS SCHEME

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1BPLC105E/205E

First/Second Semester B.E./B.Tech. Degree Examination, June/July 2026 Introduction to C Programming (For Non IT programmes)

Time: 3 hrs.

Max. Marks: 100

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

Module – 1			M	L	C
Q.1	a.	Explain the basic structure of a C Program with an Example.	10	L2	CO1
	b.	What is a Variable? Mention the rules for forming variables.	5	L1	CO1
	c.	What is a Flowchart? Draw the Flowchart to find area of a circle.	5	L2	CO1
OR					
Q.2	a.	What is a C Token? Explain different types of C Tokens.	10	L2	CO1
	b.	What is a Data Type? Explain Data Types in C.	5	L2	CO1
	c.	What is an Algorithm? Write an algorithm to convert a given Temperature in Fahrenheit to Temperature in Celsius.	5	L2	CO1
Module – 2					
Q.3	a.	Write a C Program to check for the voting Eligibility of a citizen.	5	L3	CO2
	b.	Explain Switch statement in C with syntax.	5	L2	CO2
	c.	Explain the following operators with a Fragment of C code: i) Relational operators ii) Logical operators	10	L3	CO2
OR					
Q.4	a.	Write a C program to check whether a given number is prime or not.	5	L3	CO2
	b.	Explain for loop with a program Example.	5	L2	CO2
	c.	Explain the following C statements with a Fragment of C code: i) break ii) continue	10	L3	CO2
Module – 3					
Q.5	a.	Explain One Dimensional Array Declaration and Initialization with an Example.	8	L2	CO3
	b.	Explain any Four String Handling Functions.	8	L2	CO3
	c.	Write a C program to check for Equality of Two Given Strings.	4	L3	CO3
1 of 2					

OR

Q.6	a.	Explain Two Dimensional Array Declaration and Initialization with an example.	8	L2	CO3
	b.	Discuss on any Two ways of reading strings and Writing strings.	8	L2	CO3
	c.	Write a C Program to find Transpose of a given Matrix.	4	L3	CO3

Module – 4

Q.7	a.	What are User-Defined Functions? Explain the elements of User-Defined Functions with an example.	10	L2	CO4
	b.	Write a C program to find GCD and LCM of Two numbers using user defined Function.	10	L3	CO4

OR

Q.8	a.	Explain Nesting of Functions with a program example.	10	L2	CO4
	b.	Write C Functions for the following categories of functions: i) No Arguments and No Return value ii) Argument but No Return value	10	L3	CO4

Module – 5

Q.9	a.	Define a Structure in C. Explain the creation of structure and Initialization with an example.	10	L2	CO5
	b.	Write a C Program to create an array of structures to store book details and check whether a specific book is available or not.	10	L3	CO5

OR

Q.10	a.	What are Pointers? Explain with a Program example.	10	L2	CO5
	b.	Write C programs for each of the following using pointers. i) To Swap Two variables ii) To add Two variables of int Types.	10	L3	CO5

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