

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION MAY 2026
(Second Semester)**

Branch – **MATHEMATICS WITH COMPUTER APPLICATIONS**

PROGRAMMING IN C

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which data type is used to store a single character in C ? (i) string (ii) char (iii) character (iv) text	K1	CO1
	2	Which of the following is a unary operator ? (i) + (ii) - (iii) ++ (iv) *	K2	CO1
2	3	Which function is commonly used to read formatted input ? (i) printf() (ii) scanf() (iii) gets() (iv) getchar()	K1	CO2
	4	What is the use of the break statement? (i) Skip one iteration (ii) Exit from a loop or switch (iii) Pause execution (iv) Restart the loop	K1	CO2
3	5	What is a function prototype is used for? (i) Define a function (ii) Call a function (iii) Declare a function before its use (iv) End a function	K1	CO3
	6	When Static variables retain their value? (i) Only within a loop (ii) Only during function execution (iii) Between function calls (iv) Until program compilation	K1	CO3
4	7	Which function is used to find the length of a string in C ? (i) length() (ii) strlen() (iii) strlen() (iv) size()	K1	CO4
	8	How can structures be passed to functions? (i) By reference only (ii) By value only (iii) By address only (iv) By value or by reference	K1	CO4
5	9	What does the fopen() function return if the file cannot be opened ? (i) NULL (ii) 0 (iii) -1 (iv) EOF	K1	CO5
	10	The argv parameter in the main() function represents _____. (i) An array of integers (ii) A pointer to a string (iii) An array of strings (iv) The number of arguments	K2	CO5

Cont...

SECTION - B (35 Marks)Answer **ALL** questions**ALL** questions carry **EQUAL** Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Describe Identifiers and Keywords in C with Examples.	K3	CO1
		(OR)		
	11.b.	What are Data Types in C? Explain the Various Built-in Data Types.		
2	12.a.	Explain Different Ways to Read Input Data in C.	K3	CO2
		(OR)		
	12.b.	Explain Branching statements in C.		
3	13.a.	Give note on Function Prototypes in C.	K2	CO3
		(OR)		
	13.b.	Write about the following : i) Global variables ii) Static Variables		
4	14.a.	Describe functions for Reading and Writing Strings in C.	K3	CO4
		(OR)		
	14.b.	Discuss Passing Pointers to Functions in C.		
5	15.a.	Explain the Process of Opening and Closing a Data File in C.	K3	CO5
		(OR)		
	15.b.	What are Enumerations in C? Explain with an Example.		

SECTION -C (30 Marks)Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Discuss the Different Types of Arithmetic Operators in C with Examples.	K4	CO1
2	17	Explain for, while and do-while loops with Examples.	K4	CO2
3	18	Describe about arrays and its types.	K4	CO3
4	19	Discuss String Processing Functions in C.	K4	CO4
5	20	Explain Reading and Writing Data Files in C.	K5	CO5

Z-Z-Z

END