

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(First Semester)

Common to Branches – INFORMATION TECHNOLOGY, COMPUTER TECHNOLOGY
& COMPUTER SCIENCE WITH DATA ANALYTICS

STRUCTURES PROGRAMMING USING C / 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 of the following cannot be a variable name in C? a) volatile b) true c) friend d) export	K1	CO1
	2	What will be the output of the following code? #include <stdio.h> int main() { int a = 3, b = 5; int t = a; a = b; b = t; printf("%d %d", a, b); return 0; } a) 3 5 b) 3 3 c) 5 5 d) 5 3	K2	CO1
2	3	What is the output of the following code? int main() { int sum = 2 + 4 / 2 + 6 * 2; printf("%d", sum); return 0; } a) 2 b) 15 c) 16 d) 18	K1	CO2
	4	What is the output of this statement "printf("%d", (a++))"? a) The value of (a + 1) b) The current value of a c) Error message d) Garbage	K2	CO2
3	5	Which symbol is used as a statement terminator in C? a) ! b) # c) ~ d) ;	K1	CO3
	6	What is %f, %d, %s and %c? a) Number Specifier b) Format Specifier c) Access Specifier d) None of the above	K2	CO3
4	7	An Ampersand before the name of a variable denotes a) Actual Value b) Variable Name c) Address d) Data Type	K1	CO4
	8	Which header file is essential for using strcmp() function? a) string.h b) strings.h c) text.h d) strcmp.h	K2	CO4
5	9	What is meant by 'a' in the following C operation? fp = fopen("Random.txt", "a"); a) Attach b) Append c) Apprehend d) Add	K1	CO5
	10	EOF is an integer type defined in stdio. hand has a value _____. a) 1 b) 0 c) NULL d) -1	K2	CO5

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.	Discuss tokens in C with example.	K4	CO1
	(OR)			
	11.b.	What do you mean by the scope of the variable?		
2	12.a.	Difference between getchar () and scanf () functions.	K4	CO2
	(OR)			
	12.b.	What is switch in C with example?		
3	13.a.	Where do we write function prototype in C?	K5	CO3
	(OR)			
	13.b.	Compare Static and Global variable.		
4	14.a.	Analyze different ways to initialize a String in C.	K5	CO4
	(OR)			
	14.b.	Compare union and structure in C with example.		
5	15.a.	Explain fprintf() function.	K6	CO5
	(OR)			
	15.b.	Examine Command Line Arguments in C with 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	How do you classify operators in C? Explain.	K3	CO1
2	17	Narrate looping in C with sample program.	K3	CO2
3	18	Elaborate multidimensional array in C with example.	K5	CO3
4	19	How to pass a pointer to a function in C? Discuss.	K6	CO4
5	20	Explain fopen() and fclose() functions in C with example.	K5	CO5